'26

EXPO

UMSI ANNUAL
STUDENT
PROJECT
EXPOSITION

MONDAY
APRIL 20, 2026

SCHOOL OF
INFORMATION
UNIVERSITY OF MICHIGAN

Welcome

This event showcases the talents of UMSI students. In many cases, these students show and present projects they have worked on in class, research, or community/ service projects. In others, the project may result from work completed during an internship or other experience. The projects display the skills students have learned while at UMSI that relate to the many information professions.

SAVE THE DATE FOR NEXT YEAR'S UMSI EXPOSITION
MONDAY, APRIL 26, 2027

UMSI offers organizations from all industries opportunities to partner with students to solve information challenges. Learn more at https://www.si.umich.edu/host-student-project

SCHOOL OF INFORMATION
UNIVERSITY OF MICHIGAN

2200 Hayward Street
Ann Arbor, Michigan 48109

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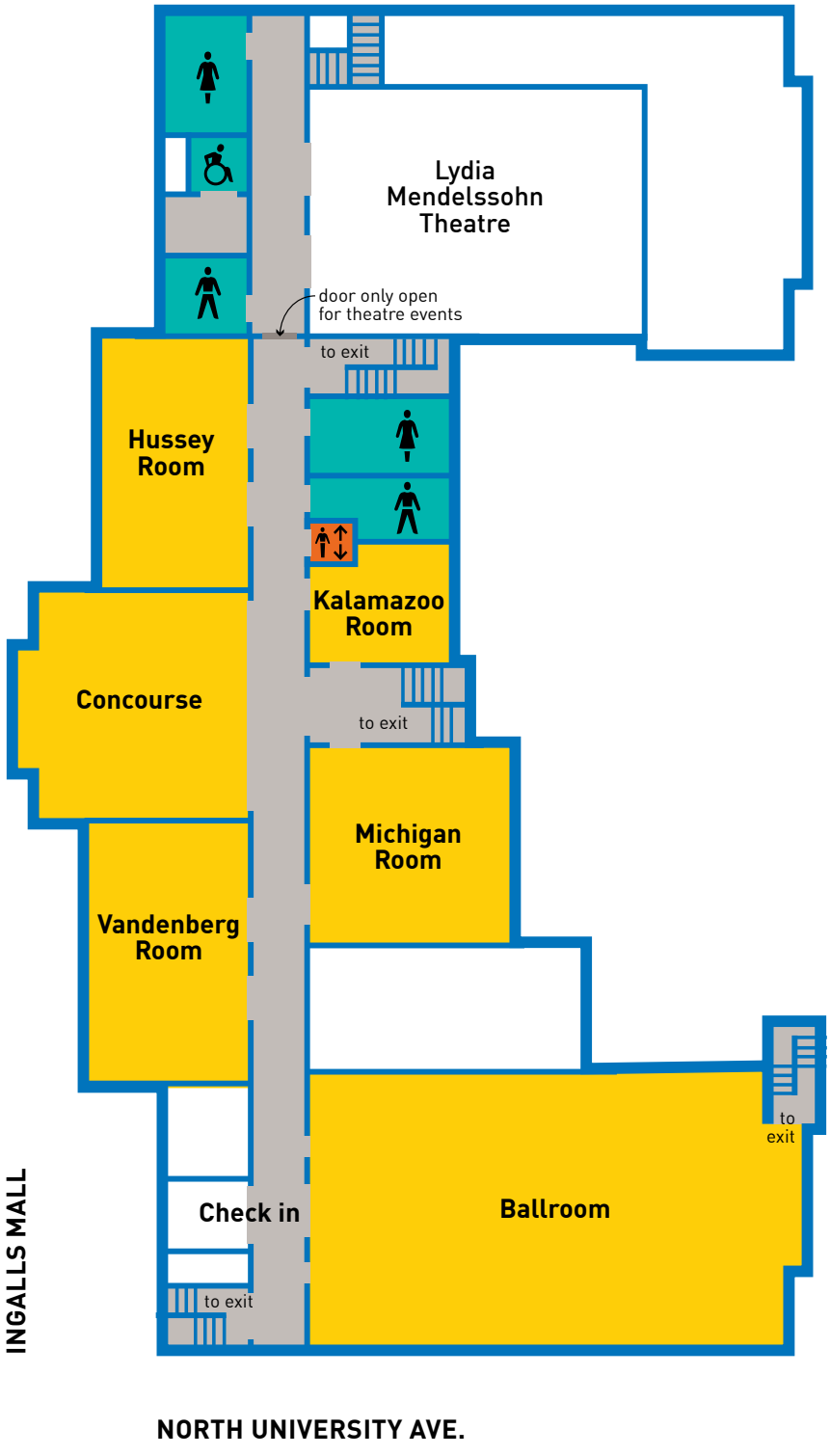
Poster Session Michigan League, 2nd Floor



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- Engaged Learning Office Programs and Independent Projects
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KALAMAZOO ROOM (TABLES 111–125)

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Awards & Badges

The School of Information gratefully acknowledges the following organizations for their generous support of the Exposition Awards: the UMSI Annual Fund, the UMSI Organizational Culture and Community team, and the U-M Impact Area Life-Changing Education Grant fund.

Final Projects Categories

$2,500 for first prize; $500 for pathway winners

BSI Capstone

The Bachelor of Science in Information (BSI) Capstone is a required course sequence for all BSI students at the School of Information. The capstone course sequence consists of two classes: Capstone I (2 credits), a preparatory course that introduces the student team to their project, client, and context, and Capstone II, or Final Projects Course (4 credits), during which student teams synthesize and apply their prior curriculum to a real-world project shared by a project client. The BSI consists of two pathways, Information Analysis and User Experience Design, with opportunities to focus on areas like social media, entrepreneurship, digital humanities, and consulting. Judges for this category will review projects from both pathways.

Master's Programs Final Projects:

This comprehensive category includes the culminating projects from all UMSI master's degree programs: the Master of Science in Information (MSI), the Master of Applied Data Science (MADS), and the Master of Health Informatics (MHI). These final projects demonstrate students' mastery of core theories, methods, and practices required for entry into their respective information professions.

MSI students complete their capstone through either a project-based, three-credit Mastery Course (SI 699) or a six-credit Master's Thesis Option Program (MTOP). Both options are rigorous, second-year experiences that require a high degree of independence.

Thematic Categories

$1,500 for first prize; $500 for second prize

Access, Belonging, and Inclusion

This award recognizes projects that broaden access and reduce obstacles to information and resources. Projects in this category demonstrate inclusive work that enables fair treatment and full participation of all people. This supports the mission of the School of Information (UMSI) to build a better world through people's use of information—with technology. Projects in this category can focus on UMSI, the University of Michigan, other communities, and society at large. This award is funded by the UMSI Organizational Culture and Community team.

Entrepreneurship and Innovation

This award is for projects that embody the spirit of deep innovation by developing and proposing novel, technology-driven solutions to complex societal or informational challenges. Projects must demonstrate the creation of tangible value through a creative initiative or new venture that not only employs advanced technology but also critically considers the sociotechnical aspects of the solution—how people, culture, policies, and ethics interact with the technology. Highly considered projects will present original ideas and approaches with the potential to have a transformative, positive impact on communities, organizations, or markets.

Democracy and Civic Empowerment (U-M Impact Area)

This category recognizes projects focused on the participation, rights, and obligations of people in democratic societies, including local and global initiatives. This includes projects that promote civic empowerment, enhance government transparency, foster informed public discourse, or address challenges related to democratic processes, community mobilization, and engaged citizenship. This category directly supports the University of Michigan's thematic Year of Democracy, Civic Empowerment, and Global Engagement.

Life Changing Education (U-M Impact Area)

This category recognizes projects that explore and envision the future of education, focusing on how learning experiences can be transformative and life-changing. Projects may focus on topics such as learning flexibility, skill development and division, global talent pools, productivity, innovation, well-being, automation, remote work, or new models of leadership and management. This category specifically aligns with and contributes to the broader U-M Look to Michigan Campaign effort to define the next generation of education, and includes Campus of the Future Student Idea Showcase Proposals. This award is funded by the U-M Life Changing Education team.

MADS students culminate their learning with a project that applies an end-to-end data science approach, drawing on computation, theory, and application.

MHI students also have the option to submit projects developed in the final term of their course for consideration within this capstone category, showcasing their application of information science tools within the healthcare domain.

Students self-nominated projects for Thematic Category awards. Posters are scored based on a rubric judging presentation of the project, presentation of the poster, alignment of the project with the award category, a clearly defined problem, the outcome of the project and the accessibility of the outcome for the audience, the impact of the project, and the novelty of the project.

Judges

**UMSI Advisory Board Member, ‡ U-M Alumnus*

Alicia Napoleon
User Experience Designer, Audible Inc. ‡

Anne Beaubien
Director, MLibrary Document Delivery, U-M University Library (Retired) *‡

Brandon Patterson
Associate Librarian, Technology Engagement, University of Utah Spencer S. Eccles Health Sciences Library ‡

Brian Kurtz
Technical Program Manager ‡

Chaitrali Gharat
Staff Product Designer, Okta ‡

Cory Knobel
Ouro Strategic Insights Group *‡

Daniel Moon
Investor *‡

Dave Cole
Head, TNNS *‡

Diane Hummel
Manager, Spectrum Health Sciences Library ‡

Elizabeth Schultz
Chief Deputy Clerk/ Register of Deeds, Washtenaw County ‡

Emily Puckett
Director of Space Management, University of Arkansas ‡

Glenn Fischer
Library Director, DeWitt District Library ‡

Greg Hecht
CTO, Startup Founder ‡

Greg Russo
Former Trust and Safety Lead, Vimeo ‡

Hajj Flemings
CEO, REBRANDX

Harish Vundavalli
Senior Technical Architect

Hazem Mahmoud
Director, Products & Services, The Patrick J McGovern Foundation ‡

Hemasundara Reddy Lanka
Technical Architect

Ian Geiman
Senior Lead UX Designer, Re:Build Tekna ‡

Ian Rosen
CEO, Connective Inc. *‡

Irene Cheung
Business Transformation Leader, Former PwC, Marriott, Under Armour, MLB *‡

Jason Ulsh
Solutions Architect, AVP ‡

Jeff Babe
Global Program Manager, Zoom ‡

John Cameron
Armanino LLC, Retired Partner *‡

John Thompson*

Jonathan Shiffner
Vice President, Citigroup ‡

Joseph Schmit
Senior Data Scientist, Curi Insurance ‡

Julie Darling
Manager of UA Programs, Washtenaw Community College; Author, Routledge ‡

Kate Donovan
Associate University Librarian for Special Collections & Director of The Bancroft Library, University of California-Berkeley *‡

Katie McCurdy
Designer, Founder, Consultant ‡

Kelli Turner
President & CEO, Audacy Inc. *‡

Kenlee Ray
Senior Information Officer, World Bank (Retired) *‡

Kimberly Song
Principal Designer, LinkedIn ‡

Kruthi Sabnis Krishna
Senior Manager, Product Design at Twilio ‡

Kyle Cozad
IAM Engineering Supervisor, U-M Information and Technology Services *‡

Lynn Feeney
Lynn Feeney Consulting ‡

Mackenzie Francisco
Senior Data Scientist, Zscaler ‡

Mai Nakhala
Senior UX Researcher, ADT Security ‡

Mark Sprang
Archivist, Bowling Green State University ‡

Namita Nisa
Senior Product Designer, Cisco-Meraki ‡

Natalie Buda Smith
Director of Digital Strategy, Library of Congress

Nate Phipps
Managing Director, U-M Marsal Education Center for Education Design, Evaluation, and Research

Nathan Oostendorp
Founder/CTO, Sight Machine ‡

Nick Heggestad
Senior Product Designer, Consumers Energy

Nick Moroz
Director of Entrepreneurial Practice, U-M Center for Entrepreneurship ‡

Nikhil Sharma
UX Director, Google *‡

Niyati Gupta
Lead Designer, Netflix ‡

Novia Wong
PhD Candidate, University of California-Irvine ‡

Paul Woods
Founder, ALICE *

Philip Brabbs
Managing Director, Business+Tech, U-M Ross School of Business ‡

Shawn Dimpfl
Senior User Experience Researcher, Thomson Reuters

Soma Ray
Researcher and Service Designer, ManthanUX ‡

Stephanie Haley
Senior UX Researcher and Project Manager ‡

Steve Cotterill
Senior UX Architect, Apple Inc. ‡

Steven Ong
Principal Data Scientist, Ministry of Human Resource and Emiratisation, United Arab Emerites ‡

Swarnima Deshmukh
Principal Designer, Atlassian ‡

Thomas Wilson
Professor and Associate Dean (Retired) *‡

Uday Padyana
Manager Analytics, Leading Tech Company ‡

Valeda Dent
Vice Provost, Libraries, Museum, and Center for Digital Scholarship, Emory University *‡

Varun Joshi
Principal Product Designer ‡

Whitney Bayer
Marketing Lead, U-M Center for Academic Innovation ‡

Yunyao Li
Director of Machine Learning, Adobe *‡

Zahra Langford
UX Director, Rogue Credit Union ‡

The School of Information sincerely thanks our judges for their time and expertise at this year's Exposition. Your thoughtful feedback validates months of student research and inspires the next generation of innovators. We truly appreciate your commitment to our community.

Projects

SI 485/495 Information Analytics Capstone

A Data-Driven Analysis of Energy Usage in Ann Arbor TABLE 1

ZACHARY GRANADOS (BSI), STELLA JOHNSON (BSI), ASA GARCIA (BSI), NATALIE VANBODEGOM-SMITH (BSI), DANIEL HIMMELFARB (BSI)

This project addressed inefficiencies and data quality issues in the City of Ann Arbor's energy data pipeline. The team developed a SQL-based pipeline and interactive dashboard to improve data integration, detect anomalies, and deliver insights for more informed energy management decisions.

Build Data Dashboards to Demonstrate Impact for Youth Experiencing Homelessness TABLE 2

BRADY HAISFIELD (BSI), EMMA JOHNSON (BSI), MARIELLE JOHNSON (BSI), DHARA PATEL (BSI)

The goals of this project were to update and expand Tableau dashboards for Sasha Bruce Youthwork to better analyze and communicate program outcomes. These dashboards will help staff, leadership, and funders understand the clients being served and evaluate the organization's effectiveness in supporting youth experiencing housing insecurity and homelessness.

Business and Empire in the First Corporation TABLE 3

SAMUEL SLATER (BSI), VIVEK CHANDURI (BSI), KUNAAL KAPILA (BSI), TAJRENE BEGUM (BSI), GRACE MAKI (BSI)

UM Law School has obtained a large archival dataset concerning the East India Company (EIC) spanning the years 1600 to 1750. This data may help answer how the EIC used contracts to manage employees abroad, what economic arrangements were used to exert power over India, and how contracts changed over time.

CVS Design System Adoption TABLE 4

IRIS DING (BSI), MAX HIRSCH (BSI), JACK PADRON (BSI), MARINA ZHAI (BSI), WYATT FIDELL-NEWSOME (BSI)

This project partners with CVS Health. Digital Pulse, CVS's UI component library, ensures design consistency through built-in guidelines. While usage is tracked, deeper behavioral insights are limited. This project identifies friction points to better understand usage and support continuous improvement.

Democratizing Access to Knowledge about Civil Rights Lawsuits TABLE 5

ISAAC SERVIN (BSI), PARI DAR (BSI), MOLLY ADLER (BSI), SAAVI KUMAR (BSI), NATHAN LEE (BSI)

This project set to use machine learning to automate tagging of civil rights litigations in the Clearinghouse website - a research and public data initiative housed within the Univeristy of Michigan Law School.

Detecting Insurance Fraud Using Machine Learning TABLE 6

THOMAS DRAWBAUGH (BSI), NYLE SABIH (BSI), OLA IFIDON (BSI), ALEX BASNER (BSI)

The Claims Pattern Analyzer is designed to improve the accuracy and efficiency of healthcare fraud detection. By combining machine learning and statistical techniques, the system analyzes claims data to identify unusual billing behaviors, overutilization patterns, and anomalies that may indicate fraud, waste, or abuse.

Driving Voter Turnout: Data-Driven Insights for Michigan 2026 TABLE 7

ALYSSA RODRIGUEZ (BSI), AIDEN WESTPHAL (BSI), DAVID ROGERS (BSI), IAN ZAMAN (BSI), SANGHYUN HAN (BSI)

This project analyzed publicly available voter data to identify Michigan communities with the greatest potential for increased voter turnout ahead of the 2026 election. The team developed strategic recommendations to help non-partisan democracy organizations design more effective outreach strategies for underrepresented voter segments.

Empowering Career Growth Through Skills and Learning Data TABLE 8

ANNABEL FILIPPINI (BSI), ALYSSA PEEK (BSI), JOLANA BABJAK (BSI), KONSTANTINOS HATZOPOULOS (BSI), LEV MECHNIKOV (BSI)

This project partnered with U-M Organizational Learning to analyze workforce attrition data and identify why employees in high-turnover roles are leaving. The team delivered an interactive Tableau dashboard, retention recommendations, and a knowledge transfer guide to help U-M reduce turnover and support staff career development.

Enhancing Housing Data Insights Through Dashboard Design TABLE 9

ETHAN GOTTLIEB (BSI), REMI ZELIN (BSI), ZUMUA YESMIN (BSI), ALEXANDRIA WASHINGTON (BSI), STEPHEN MILMAN (BSI)

This project addressed challenges in organizing housing data at Community Housing Network, a nonprofit serving Metro Detroit residents experiencing housing instability. The team developed an interactive dashboard integrated into Microsoft 365 and SharePoint to help staff identify trends and explore datasets.

EPRI: LLM Based Sentiment Analysis of Energy Infrastructure Projects TABLE 10

ARMAAN BHASKAR (BSI), JESSICA IMAZ (BSI), MURTAZA AHMADI (BSI), TREVOR HOGLAND (BSI)

This project built a three-stage pipeline to automate analysis of energy regulatory comments. The system scraped FERC documents, used Gemini models to extract variables, and validated accuracy against manual coding. This enables scalable automated annotation to replace time-consuming manual analysis.

Evaluating Student Experiences at the American College of Thessaloniki

TABLE 11

ZACHARY WITTENBERG (BSI), FELICIA CHEN (BSI), ELAN GROSSMAN (BSI), HALLE WHITMAN (BSI)

Using multi-year survey data, the team identified trends and key factors influencing student satisfaction at the American College of Thessaloniki (ACT). This project will help them implement student feedback into future abroad experiences at ACT.

Expanding Impact in Rural Communities: Visualizing Contract and Fundraising Data TABLE 12

ELISE HERZOG (BSI), NINA BUSCH (BSI), TRISTIN SMITH (BSI), ANDRIUS GALVANAUSKAS (BSI)

This project developed interactive dashboards for the Rural Community Assistance Corporation to transform fundraising and contract data into actionable insights. The dashboards improved reporting, increased data transparency and enabled leadership to monitor performance, identify trends and allocate resources strategically.

Extracting Actionable Insights from Product Experience Data via Topic Modeling TABLE 13

MONICA HE (BSI), VANESSA LEE (BSI), OWEN WORCHELL (BSI), SAM KODA (BSI), CAMERON COOPER (BSI), OMAR AGGOUR (BSI)

Microsoft's Customer Experience and Success team manages tens of thousands of multilingual support tickets, making it difficult to spot recurring issues. This project applied topic modeling techniques to surface key themes, enabling more efficient and proactive support operations.

Ford School Consolidated Marketing Dashboard TABLE 14

WILL ALLISON (BSI), ERIC GENG (BSI), KATIE HODGE (BSI), HARSHA LUITEL (BSI)

The project consolidates data from five websites into one system for the University of Michigan Ford School of Public Policy marketing team. The team automated data collection using API (application programming interface) keys, built a database, and created a Tableau dashboard to support marketing decisions.

Friends in Deed Service/Donor Impact Dashboard

TABLE 15

ALEX TRAVIS (BSI), WILLIAM SODERLUND (BSI), CANDICE JONES (BSI)

This project addressed inconsistent data at Friends in Deed by standardizing fragmented records into a centralized Tableau dashboard. The team transformed scattered metrics into actionable insights, allowing the nonprofit to track program impact, improve donor retention, and strengthen grant proposals through data.

From Data to Decisions: Interactive Dashboards For Museum Engagement

TABLE 16

PRIYA SHAH (BSI), LEO LEONE (BSI), NATHAN KUSHNIR (BSI), AGNES MAR (BSI), OLGA HAMILTON (BSI)

This project addressed limited visibility into attendance and donor trends for the Ann Arbor Hands-On Museum. It developed year-over-year attendance tracking, audience segmentation, and projections comparing signups to attendance, while analyzing donor behavior to improve engagement and support long-term fundraising growth.

From Data to Impact: Predicting Success in the PTS Journey TABLE 17

ANNIE LIEMOHN (BSI), ELIANA DETATA (BSI), HANNAH YORAN (BSI), ALI ALLAM (BSI)

Coalition On Temporary Shelter asked the team to analyze data from their Passport to Self-Sufficiency® framework—a strengths-based, poverty reduction approach focused on five domains—to help define program success and identify factors of positive outcomes. Our team gave recommendations for future participant recruitment.

Mapping Michigan's Creative Economy Through Data TABLE 18

CALEB ROSENBLUM (BSI), NATE EDINBURG (BSI), EMILY ROBINSON (BSI), YARITZA RAMIREZ (BSI)

This project supported Detroit Design Core, a nonprofit connecting Michigan's creative economy, by developing an interactive dashboard to showcase its statewide impact. The team standardized data systems and enabled leaders to better assess outcomes, inform decisions, and strengthen collaboration.

Michigan's First Interactive Polling Location Data Tool TABLE 19

MADELYN MEYER (BSI), GRACE COOPER (BSI), SAMUEL ROSENSTOCK (BSI), CARMEN SAMANIEGO (BSI)

This project addressed inconsistent polling location data across Michigan by developing a centralized system. In collaboration with North Arrow Consulting Group, the team built a user-facing interface, reusable data-cleaning tools, and a handbook to support accessible, accurate, and sustainable data use for civic outreach.

NaNDA Neighborhood Data Dashboard: Democratizing Access to Neighborhood-Level Data TABLE 20

ZANNAH BAKER (BSI), JONAH BOTKIN (BSI), KAIPING LU (BSI), SHREYA RAVIPATI (BSI), KARLA VEGA (BSI)

This project developed an interactive dashboard to make the National Neighborhood Data Archive more accessible to students, researchers, and laypeople. The tool provided an intuitive interface for exploring neighborhood-level data, lowering technical barriers and promoting the use of open data in research and coursework.

Predictive Supply Chain Management

TABLE 21

ASANTE JORDAN (BSI), CARSON BILLIG (BSI), EMILY ADAMO (BSI), MATTHEW KOBER (BSI), MATTHEW URBANCZYK (BSI), RACHEL SONNETT (BSI)

Shifting customer demand made corrugated purchasing difficult for a packaging automation company and threatened on-time delivery. This project built a predictive model using past sales and invoice data to forecast weekly raw material demand two to four weeks ahead, improving inventory stability and customer fulfillment.

Smarter Data for Stronger Student Futures TABLE 22

MIA WEINBERG (BSI), SAM CHIAZZESE (BSI), VALERIA SERRATOS (BSI), MATTHEW CAPPO (BSI), NATASHA GILMAN (BSI)

This project addressed Youth Solutions' challenge of managing scattered survey data. The team built a centralized spreadsheet and interactive dashboards to organize responses and visualize trends. The solution improved data access, helping schools track progress and support students' career-focused education and success.

SI 485/495 Information Analytics Capstone CONTINUED

Streamlining Interpreter Data Cleaning and Visualization TABLE 23

ANNA HOU (BSI), JASMINE LUALLEN (BSI), JANE JOYCE (BSI), JOEL SHULL (BSI)

This project improved how Michigan Medicine Interpreter Services cleans and analyzes operational data by developing an automated data cleaning workflow and dashboards that visualize interpreter demand and utilization, reducing manual reporting and supporting more informed staffing decisions.

Unveiling Causality: Measuring the Impact of Key Initiatives TABLE 24

YUFENG LIN (BSI), NICK LO (BSI), BRADY TEICHMAN (BSI), SARAH OSTAD (BSI), MATIAS HERNANDEZ (BSI)

The project initially aimed to develop a causal inference framework for determining the impact of specific support operation on engineer productivity. Driven by stakeholder needs, the project shifted to develop the same framework based on a Kaggle dataset on depression.

SI 487/497 User Experience Capstone

A User-Centered Redesign of the Frankel Jewish Academy Website TABLE 25

ISABELLA DIAL (BSI), ABIGAIL SHERIDAN (BSI), MICHAEL FELDMAN (BSI), JAKE HIRSCHBERG (BSI)

This project evaluated the Frankel Jewish Academy website to identify usability and communication challenges affecting prospective families and donors. The team proposed a user-centered redesign to improve navigation, clarify key pathways, and strengthen community engagement.

An Inclusive AI-Community Across Campus TABLE 26

ZIHANG WANG (BSI), CONNOR NOLAN (BSI), VAIVA RAISYS (BSI), MEGHAN HOFFMAN (BSI)

This project was a redesign and overhaul of the AI Connections site, a University of Michigan AI Lab community. AI Connections aims to be a space for students, faculty, and alumni to find university-wide AI information, make connections, and engage in interdisciplinary collaboration.

Ann Arbor STREAM: Improving Digital Permit Platform Through User-Centered Design TABLE 27

AAMINA HUSSAIN (BSI), TAYLOR YONKMAN (BSI), GEORGE JOHNSON (BSI), ELLA MCCAULEY (BSI), MARIAM ELAHDAN (BSI)

This project evaluated Ann Arbor's STREAM permitting platform to address workflow confusion and unclear terminology. Through qualitative research, design recommendations were developed to simplify navigation and improve efficiency for residents, contractors, and staff.

Better Together: Redesigning the Volunteer Journey at Friends In Deed TABLE 28

OLIVIA JOHNSON (BSI), SARAH KICHULA (BSI), KALLY VAN (BSI), VIVIAN VANRENTERGHEM (BSI)

This project addressed gaps in Friends In Deed's volunteer recruitment and onboarding processes, where fragmented information and unclear expectations limited engagement. The team redesigned the volunteer journey to centralize information and improve communication, strengthening retention and overall community impact.

Break Konnect: Further Elevating Street Dance TABLE 29

SYDNEY EMUAKHAGBON (BSI), DAVID JIN (BSI), LAUREN RODRIGUEZ (BSI), AAFAF MOUSTAFA (BSI), JAEDEL LEON (BSI)

This project redesigned Break Konnect, a platform for breaking events, to address challenges in event discovery and organizer visibility. The team developed a more useful homepage and supporting flows to surface relevant events, streamline management, and strengthen participation across the dance community.

Breaking Barriers: An Accessibility-Focused UX Redesign for Comparative Literature TABLE 30

CATHERINE VITTON (BSI), NINA NGUYEN (BSI), NADIA JAHAN (BSI)

This project improved accessibility and navigation on the University of Michigan's Comparative Literature website. The team redesigned the site to enhance usability, screen reader compatibility, and information architecture, creating an inclusive, user-centered platform for students, faculty, and the public.

Bridging the Data Divide: Redesigning the Surveys of Consumers Experience

TABLE 31

NADIA MALIK (BSI), SHALIN ZARBOULAS (BSI), GLORIA YU (BSI), HAZEL JIANG (BSI)

Analyzing usability friction within the U-M Surveys of Consumers dual-site system. Through mixed-methods research, the team identified critical gaps in navigation and information hierarchy. The resulting redesign established a search-first architecture and unified interface to improve data findability and professional trust.

Building Credibility Through Nonprofit Digital Experience TABLE 32

KATHERINE SAPERSTON (BSI), SANVIKA INTURI (BSI), CAROLINA JANICKE (BSI), NICHOLAS ALEXANDER (BSI)

This project redesigned the website for Pudiyador Charitable Trust to address low donor engagement caused by limited transparency and unclear mission communication. Through user research the project proposed design improvements to strengthen credibility, increase trust, and support sustainable fundraising growth.

By, With & For Autistic Adults Website Redesign TABLE 33

BRIDGET BAILEY (BSI), SINEEN RASLAN (BSI), JESSICA YANG (BSI), ABBEY ZAHRA (BSI)

This project was a redesign of the website for By With and For Autistic Adults, a local nonprofit serving autistic adults. The team addressed core usability issues within the previous website, developing a clearer, more intuitive experience to improve access to programs and better support community members.

Creating an Impactful Onboarding Experience in LibbyU TABLE 34

SARAFINA CHEA (BSI), KATE CHUNG (BSI), DEVYANI JAIN (BSI), IVAN PENICHET-KHAW (BSI), FAYE STOVER (BSI)

In preparation to beta launch a new student-focused app through OverDrive, a digital library distributor, the project team conducted research and proposed designs to support and test feature discovery and create an engaging onboarding experience that drives adoption.

D4 Website Redesign TABLE 35

NOAH FELLER (BSI), AMADOU DIALLO (BSI), KELSTON RICHMOND (BSI)

This project redesigned the website for D4: Doing Development Differently in Metro Detroit, an equitable development non-profit, to address usability and navigation challenges. The redesign improved site structure and clarity, helping key stakeholders more easily find resources and understand the group's work.

Engaging Museum Collections Online: Improving the U-M Philippine Collections Website TABLE 36

KYRA KENDALL (BSI), WADE BASSOCK (BSI), JONATHAN JIPPING (BSI)

This project focused on improving the University of Michigan Museum of Anthropological Archaeology website through clearer navigation, incorporating educational features, and interactive tools. The team did this to create more access to this collection for the Filipino and Filipino-American community.

Enhancing Salon Safety through the Michigan Healthy Nail Salon Cooperative TABLE 37

TANYA MIRZA (BSI), ANGEL NGUYEN (BSI), NINA WANG (BSI), NETHRA VIJAYAKUMAR (BSI)

This project evaluated the website of the Michigan Healthy Nail Salon Cooperative to address navigation and accessibility barriers that limited access to critical resources. User research guided design recommendations to improve usability, inclusivity, and digital trust for Michigan's nail salon community.

Enhancing the UX of the ICPSR Help & Support Center TABLE 38

SAM TANG (BSI), MILENKA ETEROVIC (BSI), LILY HIGGINS (BSI)

This project examined usability challenges within the Inter-university Consortium for Political and Social Research Help and Support Center, where users struggled to find information. Through research, the team proposed a new information structure and improved search experience to reduce support ticket volume.

Increasing Mental Health Resource Discovery for LGBTQ+ In Mexico

TABLE 39

MARCELA OLIVEIRA PASSOS (BSI), HUGO ACA-ZAYAS (BSI), SAMIRA MARQUEZ (BSI), NICOLE SALINAS (BSI)

The Trevor Project Mexico website provides crisis prevention resources for LGBTQ+ youth across Mexico. This project identified the design and usability factors that contributed to low retention. Guided by user research our project created recommendations to improve resource organization, accessibility, and user engagement.

Joy Mapping TABLE 40

EVANGELINA PROUTY (BSI), WILL WENTRACK (BSI), SARAH CRABTREE (BSI), ETHAN TERAMO (BSI)

This project addressed rising climate anxiety and limited engagement with the Joy Map created by the Office of Campus Sustainability. The team redesigned the platform to improve discoverability, participation, and visual appeal, fostering more accessible and uplifting sustainability engagement across campus.

Justice by Design TABLE 41

KATHERINE HURLEY (BSI), YEAJEE LEE (BSI), MOE KYAL TUN (BSI), SHANIA MCADOO (BSI)

This project redesigned the mobile and desktop experiences for Michigan Legal Help, a free legal resource for Michigan residents. It clarified the site's purpose, improved navigation, and introduced intuitive, user-centered flows, increasing accessibility and user confidence.

Macon Creek Website Redesign

TABLE 42

TABASSUM CHOWDHURY (BSI), JAIME SALMONSON (BSI), GRACE LUCILLE MASON (BSI), RANDALL XIAO (BSI)

This project redesigned the Macon Creek website, a nonprofit arts and community development organization in Michigan, to address information overload and unclear navigation. The team streamlined and reorganized content, strengthening community engagement, accessibility, and long-term stakeholder trust.

SI 487/497 User Experience Capstone CONTINUED

MGIS: Mapping the Future of Space Planning TABLE 43

ABRAHAM BAZZI (BSI), AVA KAPLAN (BSI)

This project evaluated the Michigan Geographic Information System used by University of Michigan faculty and staff to identify usability challenges in search, navigation, and information display. Through surveys, interviews, and usability testing, the team proposed improvements to improve task efficiency and platform trust.

Michigan Medicine Patient Experience TABLE 44

LILY STEINMETZ (BSI), JOE MARINO (BSI), ASHLEY GLABICKI (BSI), NOUR BAZZI (BSI), EVELYN NGUYEN (BSI)

This project aims to improve the structure, usability, and visibility of Michigan Medicine Interpreter Services SharePoint site by aligning content with staff roles and settings, making it easier for users to find and apply key resources.

Mobile App for MSU Libraries TABLE 45

LAUREN BECK (BSI), WENXI WANG (BSI), EMILY WILLIAMS (BSI), LIA DU (BSI)

This project was initiated after the Michigan State University Libraries team observed student challenges accessing the web application from mobile devices. The student team conducted user experience research and designed a mobile application, enabling students to use library features conveniently from their smartphones.

Optimizing the UX of the Kintranet TABLE 46

TERRI KANG (BSI), LULU ZHANG (BSI), JELANI HASTINGS (BSI)

This project examined the Kintranet, the University of Michigan School of Kinesiology's intranet site, after users reported difficulty finding documents and navigating resources. Through user research and usability analysis, the team developed a redesigned interface to improve navigation and usability.

Pittsfield Charter Township Virtual Tour TABLE 47

DANIELLE BRENNER (BSI), ANDREA GONZALVO (BSI), HANAN HUSEIN (BSI), BRIAN KHUU (BSI)

This project focuses on designing a virtual tour of Pittsfield Charter Township's historic sites, helping residents and visitors explore important locations through photos, descriptions, and interactive navigation. The goal is to create an accessible digital experience that highlights the township's history and heritage

Redesign of the Uptogether website complying with accessibility needs TABLE 48

BEMNET SHIBESHI (BSI), LYLA LOOMIS (BSI), SARAH NYAANGA (BSI), SINTIA ISLAM (BSI)

This project addressed barriers to online virtual wallets and applications for multilingual individuals and those with physical and linguistic disabilities. It proposed accessibility-focused design improvements to enhance usability, increasing financial inclusion and equitable access to digital tools.

Redesigning Access for Michigan Medicine Von Voigtlander Women's Hospital TABLE 49

EMILY JENNETT (BSI), ERIN LEE (BSI), JOY HUANG (BSI), MADELINE NAMY (BSI & BBA), OLIVIA PINTO (BSI)

Clerical staff at Von Voigtlander Women's Hospital struggle to find accurate information in their SharePoint site due to disorganization and poor navigation, affecting patient care. Redesigning the site with improved structure and navigation will streamline and increase efficiency, supporting better patient outcomes.

Redesigning Growing Hope's Welcome Experience TABLE 50

EVIE KATMANIVONG (BSI), SRISHTI BAGALKOTI (BSI), MADISON HETRICK (BSI), HITHA BATHALA (BSI)

This team redesigned the Growing Hope Welcome Experience to create a more inclusive, intuitive, and engaging experience for visitors, volunteers, and community members. The project aims to enhance the approach to welcoming people into Growing Hope's space and share key information about Growing Hope's programs and values.

Reimagining News @UVA Library TABLE 51

FAITH YUN (BSI), ELIZABETH SHERIDAN (BSI), AUDREY WHITTON (BSI)

This project was a redesign of the news section of the University of Virginia Library website. Through user research, the team identified usability issues and created a high-fidelity prototype that improved visual clarity, readability, and engagement to better connect users with library news and resources.

Reimagining Northfield Township Area Library Online: A Community-Centered Website Redesign TABLE 52

ALEX WARREN (BSI), JIYI HONG (BSI), KEELY NYKERK (BSI), ALGERT CECAJ (BSI)

This project redesigned Northfield Township Area Library's website to address navigation confusion and accessibility barriers affecting patrons. Grounded in user research, the team created a website prototype to improve information-finding, event discovery, and accessibility, strengthening overall library engagement.

Seed Social Network: Designing the Dual Experience of the Seed Library TABLE 53

AVERY SCHIFF (BSI), JOCELYN CHIU (BSI), JESSICA LI (BSI), ANTHONY SHEPHARD (BSI)

This project evaluated and redesigned the physical and digital experience of the University of Michigan Seed Library's new machines. The team conducted user research to understand interactions between the machines and website, and delivered design recommendations to create a cohesive journey for the campus community.

Streamlining Environmental Compliance Through Simplified Project Onboarding TABLE 54

CLAIRE JEON (BSI), KEELY GANONG (BSI), SAMI HOANG (BSI), AUDREY KOWARA (BSI)

This project improved SampleServe's environmental sampling project onboarding by simplifying complex compliance workflows. Through iterative prototyping and testing, the team created a clearer, more intuitive interface that helps consultants and operators complete essential tasks efficiently.

SI 691 Independent Study

Accrue: Designing an Accessible Investment Platform for Blind and Low-Vision Users TABLE 56

HYEBIN PARK (MSI)

Investment platforms remain inaccessible to people with vision impairment, relying heavily on visuals incompatible with assistive technologies. This project audited mock investment platforms, then designed Accrue — a prototype enabling blind and low-vision users to research, trade, and invest independently.

Alerting Drivers to Safely Retake Control in Autonomous Driving Emergency TABLE 57

RASHMI VIJAY RAISINGHANI (MSI), RESHAD ALAM (MSI), SIMRANPREET KAUR (MSI), ROSHNI VIJAY RAISINGHANI (MSI)

As autonomous vehicles increasingly manage driving, safely returning control to humans in emergencies is critical. In partnership with Stellantis and MCity, the team prototyped and tested multimodal alerts, uncovering how drivers expect to be alerted and prefer to take control.

SI 698 Master's Thesis Option Program

Under-Imagined Futures TABLE 58

DALLAS MCGHEE-HENRY (MSI)

In current media, there is a lack of diverse perspectives representing thriving futures showcasing the black diaspora and cultures. Under-Imagined Futures is an arts and media production company looking to amplify afrofuturistic stories to not prescribe, rather than inspire urban black identities to create change.

Vibe Check: Accessibility Heuristics for Vibe Coding Interfaces TABLE 59

SHALINI MADAN (MSI)

Vibe coding tools streamline software development and boost productivity through automation. However, they pose new accessibility challenges for blind or low-vision developers. To address this need, the team developed a set of heuristics to evaluate the accessibility of conversational programming tools.

Engaged Learning Office Programs and Independent Projects

Making Renewable Energy Community Benefits Accessible Through the Web TABLE 60

PALOMA CALVIN (MSI)

Large-scale renewable energy projects generate property tax revenue that benefits local communities, yet this information is often difficult to access. This project, led by the Graham Sustainability Institute, improved access by translating and updating previously compiled data into a modern, user-friendly web format.

Co-Designing Personalized mHealth Feedback Supporting Emotion Regulation for Expectant Parents TABLE 61

TIFFANY SUDIJONO (BSI)

Emotion regulation skills are critical for expectant parents to manage stress during transition into parenthood, yet engagement with mobile health interventions remains challenging. This project explored personalized feedback through data visualizations to support consistent skill practice, informing the design of a just-in-time adaptive intervention to improve perinatal mental health outcomes.

Everstory—The Free Voice & Visual Encyclopedia App for Pre-readers TABLE 62

GARRET POTTER (MSI)

Everstory is the world's first free voice & visual encyclopedia app for pre-readers. It provides early learners with an audio-visual exploration environment, delivered via a mobile-friendly web application, supported by crowd-sourced content and the contributions of more than 27 U-M students and community volunteers.

Engaged Learning Office Programs and Independent Projects CONTINUED

FreshNest: AI-Powered Ingredient Tracking & Recipe Discovery TABLE 63

LEXI WU (BSI & BA)

FreshNest enable users to photograph pantry ingredients for AI-powered identification, quantity tracking, and expiration monitoring. The app delivered personalized recipe recommendations based on available ingredients and featured a virtual bird companion system that rewards sustainable eating habits.

PassItOn TABLE 64

SRIVARDINI REDDY (MSI)

This project addresses excessive waste and financial strain caused by fragmented exchange practices in university communities by creating a university exclusive marketplace where students could buy, sell, and rent items. It aims to reduce landfill waste, improve affordability, and encourage trusted, resource efficient reuse.

Strata TABLE 65

JINGLE CHEN (MSI)

Designing Extended Reality (XR) experiences today requires technical expertise, expensive hardware, and developer support, putting it out of reach for most designers. Strata is a web-based XR prototyping tool that lets designers build, iterate, and share spatial experiences as easily as they do in Figma.

Boil and Bubble TABLE 66

SHRIYA GURKHA (MSI), ADITI JHAVERI (MHI), STACY YING (MSI)

Boil and Bubble was an augmented reality game developed in collaboration with C.S. Mott Children's Hospital to reduce pediatric procedural anxiety by reframing clinical olfactory cues into playful magical ingredients, thus improving patient throughput in the hospital.

From Web Pages to Broken Bones - Computing What is Salient TABLE 68

SHRINA TYARLA (MSI), AKHILA JOSHI (MSI), RUBY XU (BSI)

Visual salience is determined subjectively, not objectively. It's needed to determine how an object stands from the background (e.g., Link on a Web page, stop sign on a road, fracture in an X-ray), modeled on how the human visual system functions, and computed using models like DeepGaze and SalGAN.

Social Media's Role in Young Adults' Career Development TABLE 69

SELINA LU (MSI)

As digital media consumption rises, this research investigated how social media content shapes young adults' career aspirations, influencing professional development and providing critical insights into the sociotechnical mechanisms driving modern workforce entry.

Sourcing Community Needs from Social Media Data Streams TABLE 70

MUBASHAR KHAN (MADS), VARUN TATA (MADS), DANIELLE VYKYDAL (MADS)

The team developed a tool for the Urban Entrepreneurship Initiative that analyzed Reddit data using Python to identify and categorize major urban issues. They improved data filtering, classification accuracy, scalability, and delivered an interactive dashboard enabling users to explore top problems across cities.

SI 512 Research Experience Development Program

Digital Safety Services for Students Experiencing Tech-Facilitated Abuse in Pakistan TABLE 71

EMILY LIN (MSI)

Technology-facilitated abuse (TFA) is a global public health crisis that has thus far received limited academic attention for low- and middle-income countries. This project supported a trauma-informed co-design process by developing workshop materials and a literature review to design a pilot TFA intervention in Pakistan.

Who Influences Whom: Mapping AI Impact in Dialogue TABLE 72

JI YOUNG NAM (MSI), YUCHEN LIU (MSI)

In multi-party conversations between humans and artificial intelligence (AI) agents, identifying who influences whom remains difficult to measure. Conducted at the University of Michigan Information Interaction Lab, this project developed a computational framework to quantify how AI agents shape human positions in dialogue.

SI 500 Problem-Solving with People, Information, and Technology

Leveraging AI Solutions to Increase Food Insecurity Assistance in Rural Michigan TABLE 73

SELINA LU (MSI), CASSIE CHEN (MSI), LOUISE DEPA (MSI), ALEXANDRA SCHWEID (MSI), VICTORIA SUNG (MSI)

As a part of The Rural Broadband Association's (NTCA) mission to improve rural communities, this project investigated how digital tools can streamline resource distribution for food assistance programs. With AI, technological solutions can improve food equity and enhance the efficiency of local support networks.

SI 548 Principles of Software Design

LevelUp Living: Preparing Young Adults to Live Independently TABLE 74

MOLLY YANG (MSI), SAMANTHA PRATT (MSI)

LevelUp Living was designed to teach young adults and teenagers how to respond to household problems and emergencies via interactive simulations in a mobile educational game. This was created to transition young adults into the world of living independently, given U.S. education inadequately prepares them for adulthood.

SI 569 Creating XR Experiences

PitchLoop VR: Improving Communication Training through XR TABLE 75

DHRUVI JAGANI (MSI), YIMENG ZHANG (MSI), GENNIFER HOM (MSI), CELINE DARVAS (BS)

Remote students often lack structured ways to present ideas and receive real-time feedback from peers. This project developed a communication tool for Apple Vision Pro using SharePlay, allowing one student to present while others joined as audience members and provided synchronized feedback in a shared mixed reality space.

SI 659 Developing AR/VR Experiences

Virtual Reality Tech Shop Training TABLE 76

LYNN SABIEDDINE (MSI)

The Tech Shop faces challenges in training new sales consultants each semester, as limited time hinders effective onboarding. This virtual reality training application was developed to streamline learning, save time for both consultants and managers, and create a fun, interactive training experience.

SI 101 Introduction to Programming with Python

Agentic Real Estate Investment Trust Portfolio TABLE 77

NOAH PEREZ (BS)

This project addressed the inefficiency of manually reviewing Securities and Exchange Commission filings to evaluate Real Estate Investment Trusts. An agentic artificial intelligence system was developed to parse filings, extract key metrics, and generate buy and sell recommendations to construct an optimal portfolio.

Analysis of Health Care Job Market TABLE 78

ELIZABETH GERBER (BBA), CLARA HENZKE (BSI), LAUREN (BS)

This project analyzed healthcare job postings to address limited visibility into employment trends across specialties. Using a healthcare jobs application programming interface, the team identified geographic demand patterns, skill requirements, and hiring trends to inform job seekers, educators, and policymakers.

Decode Your Birthdate TABLE 79

YINUO ZHANG (BA)

This project explores the cultural meaning behind people's birthdates. It is an interactive program that identifies zodiac animals and associated traits linked to those animals, presenting results clearly along with images.

Housing Affordability TABLE 80

MAX MORALES (BSI), ISABELLA VILLAGOMEZ (BSI), MORGAN LESLIE (BSI)

This project pulls from Housing API to track how affordability varies based on various factors like average age. The main purpose is to understand the ongoing housing markets trends across various counties in Michigan.

Musicality TABLE 81

KEMA RUGARA (BA), NIA CHEN (BS)

This project was developed to address the difficulty of discovering new music within expansive digital libraries. It utilized the YouTube Music Application Programming Interface (API) to create an interactive artist generator. By filtering live data through user preferences, the tool provided personalized recommendations.

Poetry: By the Numbers TABLE 82

FREYA MITCHELL (BA)

This project provides a novel way to explore a collection of poetry that was based on the themes of the Rider-Waite tarot deck. The purpose is to allow one to view poetry indirectly, by the individual qualities of the poem, rather than the content as a whole.

Weather Outfit Generator TABLE 83

RULAN SHEN (BSI), LILY AN (BSI), KADEN LOGAN (BSI)

For out-of-state students who are not familiar with Michigan weather, not knowing the daily weather or what to wear can cause stress. This outfit generator uses reliable weather data to suggest appropriate outfits each day, helping students feel prepared, comfortable, and confident before leaving home.

SI 699 Big Data Analytics

A Century of Presidential Rhetoric: Geopolitical Focus and Country Mentions in U.S. Speeches TABLE 86

MARWA HASSAN (MSI), HASSAN BEYDOUN (MSI), VAISHNAVI VENKATARAGHAVAN (MSI), NIDA KHAN (MSI)

This project analyzed over a century of presidential spoken rhetoric using natural language processing (NLP) techniques. The team will examine how emotional language appears in presidential remarks and how those patterns vary across different presidencies and historical moments.

An Interactive D&D Rules Navigation and Q&A Assistant TABLE 87

LAN XU (MSI)

This project addressed the difficulty of locating and interpreting Dungeons and Dragons Fifth Edition rules, which are dispersed across lengthy texts. It developed an interactive Q&A assistant that helps users navigate rules efficiently, improving accuracy, reducing confusion, and supporting smoother gameplay experiences.

Analyzing ServiceNow Incident Data using Text Clustering TABLE 88

ADYA TRISAL (MSI), ADITYA KENDRE (MSI), DEBMALYA SARKAR (MSI)

This project analyzed ServiceNow incident text data from Michigan Medicine Health Information Technology and Services to identify recurring IT issues. Using natural language processing and clustering, the team uncovered hidden patterns that improved root-cause identification and prioritization of high-impact problems.

Automating Bird Breeding Season Detection using eBird Data TABLE 89

KENDRA SUN (MSI), DANIEL ALEXANDER (MSI), SHERRY WU (MSI), SUREET SARAU (MSI)

This project addressed inefficiencies in manually identifying breeding and non-breeding seasons in datasets. An automated classification approach was developed to improve accuracy and consistency. The work enabled more scalable analysis, reduced human error, and strengthened the reliability of seasonal ecological research.

Beyond the Fast: Understanding Ramadan's Effect on Athletic Performance TABLE 90

MUSTAFA AL-OGAILI (MSI), ALI AL-OGAILI (MSI), MOHAMMAD FARHAT (MSI)

Muslim athletes lack structured, evidence-based guidance for training during Ramadan. This project tracked twelve athletes across seven sports over thirty days, analyzing energy, recovery, hydration, and sleep patterns. Findings were presented in the form of a notebook and a web application.

Bridging the Gap: Optimizing Essential Air Service for Underserved Markets TABLE 91

AFFAAN WAHEED (MSI)

This project analyzed systemic inefficiencies within the Essential Air Service program. Utilizing massive demand datasets, a predictive algorithm was developed to identify routes overlooked by hub-and-spoke models. Findings demonstrated that direct flights could improve rural mobility and government subsidy efficiency.

Color IRL: Because Guessing Your Colors Is So Last Season TABLE 92

ROBBIE COLLIS (MSI), ISHRAQ RAHMAN (MSI), LENA CHOI (MSI)

Shopping should make you feel confident, not confused. Most people don't know which colors flatter them, leaving them frustrated or avoiding shopping entirely. Color IRL identifies your color season, scans products for compatibility, and connects you to a community of people and pros who help you look and feel your best.

Food Gatherers' Household Network Dashboard TABLE 93

TYRONE PETTYGRUE (MSI), ALEJANDRINO ARCE (MSI), LUNDEN MANDIGO (MSI)

Food Gatherers lacked clear insight into long-term household pantry usage. This project analyzed years of visit data and developed an interactive web application. The self-serve tool empowered the organization to independently track retention and measure community reliance on their emergency food network

Gymnastics Performance Analytics and Interactive Data Platform TABLE 94

NIKKI YUAN (MSI), RAY WU (MSI)

This project addressed the lack of structured analytics in women's artistic gymnastics by transforming competition results into a searchable database. Working with Global Impact Gymnastics Alliance, the team built a data pipeline and tools to support performance analysis and improve access to athlete insights.

Immigration Framing Across Cable News Networks TABLE 95

CAROLYN CULLEN (MSI), MEGHAN LEVITT (MSI)

This project investigated how immigration coverage differed across major cable news networks over time. Using chyron text from Fox News, CNN, and MSNBC, it analyzed sentiment, recurring topics, and dehumanizing language to better understand changing media narratives around immigration.

Improving Academic Medicine Every Day TABLE 96

MUYU LIN (MSI), YUNUO HU (MSI)

The project addressed recurring IT incidents within Michigan Medicine's Health Information Technology & Services division. It applied structured analysis and natural language processing-based clustering to identify root causes, and to develop a repeatable problem management framework that improves service efficiency.

Job Market Sentiment Analysis TABLE 97

SRUTHI CHATRATHI (MSI), MARYAM ROMIO (MSI)

This project examined whether labor market indicators reflect public perception of the job market. Reddit posts from three job communities were analyzed using natural language processing to track sentiment from 2019 to 2025, revealing increased negative sentiment coinciding with major economic disruptions.

Lead Lines: Michigan's Lead in Water Dashboard TABLE 98

LINGXIAO ZHONG (MSI), XIAO DONG (MSI), VAIBHAV SEN MALLA (MSI)

This client project Planet Detroit and Safe Water Engineering will create an interactive dashboard that visualizes statewide trends in lead levels and lead service line replacement progress using publicly available data from Michigan's Department of Environment, Great Lakes, and Energy (EGLE).

Predicting Charter School Student Enrollment TABLE 99

ADIA LEE (MSI), CHRISTINA NG (MSI), SELINA SHAN (MSI), SHIRLEY AI (MSI)

This project developed a model to estimate new student enrollment across 100 schools operated by National Heritage Academies. It predicted which accepted students would attend by grade level, helping schools admit extra students when needed and allowing more families to secure spots at their preferred schools.

Profiling College Shooters to Help Understand NBA Success TABLE 100

ERIK MARTIN (MSI)

National Basketball Association teams struggle to accurately identify draft talent. This project addressed the issue by performing a clustering analysis of college prospects using detailed college shooting data. The resulting clusters were used to examine patterns in how players in each group typically performed in the NBA.

Projecting Student Withdrawals Across a Network of 100 Charter Schools TABLE 101

JIAXUAN XU (MSI), DONG DING (MSI), JIAYU CHEN (MSI), JIAREN LIU (MSI)

This project developed a forecasting model to estimate summer student withdrawals at the school level. Because families often delayed notifying schools of departures, vacant seats could not be filled promptly. The model supported proactive admission decisions, helping schools maintain stable and efficient enrollment.

SI 699 Big Data Analytics CONTINUED

Script-Driven AI Game Master for Interactive Storytelling TABLE 102

YUANCHEN LYU (MSI), ZHIYI JI (MSI), XINYI HUANG (MSI), HENGYI CAI (MSI)

This project addressed challenges in maintaining narrative coherence in long-context role-playing games. It developed a script-driven AI game master that structured memory, guided plot progression, and ensured consistency across characters and world settings, improving storytelling stability and immersion.

Telemetry to Transmission: Override Detection and Classification Using CAN Signals TABLE 103

PARIS HEARD (MSI), SHAOYING ZHENG (MSI), JONATHAN MCMILLAN (MSI)

Driver overrides of Traxen Inc.'s intelligent cruise control system (iQCruise) reduced fuel efficiency across semitruck fleets. A telemetry-based pipeline detected and classified override events, enabling root-cause analysis and interventions that are projected to increase utilization and further improve fuel efficiency.

ThirdSpace: AI Agent for Sports Fans TABLE 104

LUNDEN MANDIGO (MSI), ALEX ARCE (MSI), TYRONE PETTYGRUE (MSI)

Finding where to watch March Madness—especially the women's tournament—is a struggle for isolated fans. ThirdSpace maps venues guaranteed to broadcast both tournaments, bridging the gap between fans and fan-friendly businesses. This drives local foot traffic while fostering a connected community for every "big game" moment.

Topic Evolution and Risk Detection in Reddit Mental Health Posts TABLE 105

JING YIN (MSI), PARU BANJARA (MSI)

The high volume of help-seeking and emotional posts online makes it difficult for moderators to quickly identify mental health risks. The project used topic evolution to track trends and risk classification to identify urgent cases. The resulting models prioritize posts that require immediate human review.

SIADS 699 Capstone and MADS Independent Projects

Multi Modal Coding Interview Prep TABLE 106

MEGAN POUNCY (MADS)

Students often feel intimidated by interview coding exams. Looking for ways to ease the burden of preparing for coding interviews and to support peers, a program was started called Saturday Sessions. That program expanded to included grant funded research on multi-modal coding environments for learning and interview prep.

Unraveling the Caregiving Crisis with Predictive Intelligence and Comprehensive Support TABLE 107

MEGAN POUNCY (MADS)

Three to Care is an evidence based mobile platform built on an agentic intelligence layer and knowledge graph to support informal caregivers and those they care for who live with chronic illnesses and disabilities. This Michigan based company seeks to impact systemic change in the health care system by centering the needs of patients and their informal caregivers who would otherwise operate without real-time guidance and support. The platform also provides clinicians with visibility into the home based care and daily activities of their patients.

SIADS 699 Capstone

Optimization of Urban Photovoltaic Installation TABLE 108

STEPHANIE MACIEJEWSKI (MADS), RUCHI PATIL (MADS), ERIN METTLER (MADS)

This project evaluated how rooftop photovoltaic (PV) panels could meet urban energy needs, addressing demand for cost-effective, scalable power. It identified optimal rooftops, estimated cost savings, and compared deployment timelines with traditional grid expansion.

Discovering Biological Signals in the Noise TABLE 109

SOPHIA K. CHENG (MADS)

This project investigated causal ambiguity in defining quality control thresholds for single-cell RNA-seq preprocessing, where biological assumptions were used to justify filtering were produced by the same workflow.

SI 699 LAKES

Building the Foundation for Grassroots School Libraries in Detroit TABLE 112

TALON WIGET (MSI)

The aim of this project was to provide the Detroit School Library Collective, a grassroots movement to implement libraries in Detroit public schools, with a "toolkit" of foundational documents to be utilized by new library programs.

From Clippings File to Dataset: Data Cleanup for UVA Library TABLE 113

DIANA BAXTER (MSI), THERESA L. AZEMAR (MSI)

In 2024, the University of Virginia (UVA) Library led a crowdsourced effort to index the UVA History Clippings File, producing a 22k-row dataset. Theresa and Diana cleaned and standardized the dataset to make it accessible to users, produced a data dictionary, and provided recommendations for future indexing projects.

Improving NaNDA Discoverability: Removing Barriers from a Research Gem TABLE 114

DANAE JARRETT (MSI), SARAH DABABNEH (MSI), LUCAS ROSENDALL (MSI)

Through a lens of findability and accessibility, this project laid the groundwork for transforming the National Neighborhood Data Archive from underutilized repository to a discoverable research resource. Metadata schema enhancements were made to connect neighborhood-level data with researchers, policymakers, and users.

Libraries and Literacy: Making the Case for State Funding TABLE 115

ELLIE FRANKLIN (MSI), MADELINE BROOKMAN (MSI), SOFIA FRUMKIN (MSI)

Michigan's child literacy rates are among the lowest in the country. With the Midwest Collaborative for Library Services and EveryLibrary Institute, this project aims to find research showing the impact libraries have on improving literacy, in an effort to convince lawmakers to increase state library funds.

SI 688 Immersive Applied Projects in the Public Sector/ Alternative Spring Break

AASL Standards Research: Crafting an Accessible Executive Summary

TABLE 116

XANDRA BAI (MSI), YOYO LIU (MSI), DEXTER PARK (MSI), MICHAEL SHAHINE (MSI)

This project synthesized multi-year research for the American Association of School Librarians to translate findings into an executive summary. It addressed implementation challenges, providing insights that now inform national standards and professional development for school library practitioners and educational leaders.

American Library Association Marketing Department Membership Surveys TABLE 117

CHOYCE JAKES (BSI), JIANI ZHANG (MSI)

This project was designed to understand the needs of cataloguers in the American Library Association (ALA)'s Core, which was accomplished by creating two surveys. Through these surveys, leaders within ALA and Core will be able to shape the division to include and serve the target community.

Archival Processing Blitz at the Yellowstone Heritage & Research Center TABLE 118

SOFIA SCHROTH-DOUMA (MSI), ELLA BROOKS-KAMPER (MSI), SARAH DABABNEH (MSI), MADELEINE ABSHER (MSI), ALVIN SONG (MSI), ELLIE FRANKLIN (MSI)

This team of six graduate students, led by Prof. Jesse Johnston, worked with archivists at Yellowstone National Park to sort, rehouse, and identify unstable file formats for boxes of unprocessed court cases from several decades of the park's history. Over the week, the team processed 175 linear feet of material.

Barkada: Filipino American Community Archive TABLE 119

LANCE NEGRUT (BSI), PHUC DINH (BSI), BRIANNA NGUYEN (BSI), SUDNYA ATRE (MSI)

Leveraging ethnographic research and audience insights, the team designed a digital archive for the Center for Immigrant Resources and Community Arts (CIRCA) Pintig website that honored the organization's history and reflected Filipino American community values.

Creating an Accessible Online Catalog TABLE 120

YUFENG LIN (BSI)

The Chinese American Museum of Chicago library holds an uncatalogued collection of approximately 9,000 books focused on Chinese literature, philosophy, art, and more. Currently, this collection is managed through an inaccessible spreadsheet. This project aims to transform it into a public online catalog, unlocking the collection for the general public

Designing a Cohesive Online Home for AASL Standards History TABLE 121

DUOLE XU (MSI), JEANETTE AHN (MSI), SIMRANJEET SINGH (MHI)

This project addressed fragmented historical materials related to the National School Library Standards created by the American Association of School Librarians, a division of the American Library Association. The team synthesized archival content and proposed a clearer web structure to improve access and organization.

Digitizing 90 Years of Library History at the Eau Claire District Library TABLE 122

FALLON MCCUE (MSI), KATIE CLEMENTI (MSI)

This project focused on digitizing the Eau Claire District Library's records connected to the library's 90-year history. Around 400 records, including newspaper clippings, photographs, documents, and more, were scanned and described with metadata. The collection was assessed for best preservation strategies going forward.

Error Remediation in the Library of Congress Catalog TABLE 123

ADELINE HENNEBURY (MSI)

This project explored remediation of call number errors in the Scandinavian literature section of the Library of Congress catalog. This project client was the Germanic and Slavic division at the Library of Congress, and was part of the Alternative Spring Break projects for 2026.

Removing Barriers: Increasing Digital Access to D.C History TABLE 124

DANAE JARRETT (MSI), EVELYN RUSSELL (BSI)

This project partnered with the DC History Center to address limited access to public domain images in the Martha Tabor "Working Images" Photograph Collection. The team cataloged inventory, digitized 100 records, and uploaded them to a digital repository, improving access for researchers, educators, and the community.

Surveying Lapsed Members to Improve Association Retention TABLE 125

YITING WEN (MSI), RUOYU SHAO (MSI), BEATRICE XU (MSI)

This project examined why lapsed members of the American Library Association chose not to renew their memberships. The team analyzed ALA's previous survey and designed a new one to identify barriers such as cost and perceived value. Findings provided recommendations to improve member retention and re-engagement strategies.

SI 405 Applied Generative AI

AI Planner TABLE 127

NICK LO (BSI)

This project is about designing a planner app that employs AI to facilitate a students' everyday work, remind them of things, and reduce anxieties in life.

Anna's AI Assistant for Everyday Task Automation TABLE 128

ANNA HOU (BSI)

This project built Anna's Personal AI Assistant, an agent that integrates Google Maps, Google Calendar, and a simulated ordering system. It automates multi-step tasks, recommends locations, schedules events, and streamlines simple orders, reducing app switching and boosting daily productivity.

Homework Feedback Coach: Scaffolded AI for Student Learning TABLE 129

RYAN ZIMMEL (BSI)

Students increasingly rely on artificial intelligence tools that provide direct answers, bypassing learning. This project developed a multi-agent system delivering Socratic homework feedback, guiding students to recognize their own mistakes without revealing solutions, making personalized tutoring scalable.

PocketFin TABLE 130

JIAHONG ZHOU (BSI)

This project helped immigrant small business owners overcome language and technology barriers in financial document review. PocketFin analyzed uploaded statements, generated multilingual plain-language summaries and simple visualizations, highlighted accounting issues, and reduced administrative time.

Syncro: Dynamic Production Scheduling Using Intelligent Agent Systems TABLE 131

STELLA JOHNSON (BSI)

This project addressed static manufacturing schedules that fail under real-time disruptions, causing delays and excess inventory. It developed a live digital twin using intelligent agents to dynamically adjust production schedules, improving on-time delivery and enabling data-driven decisions.

UX User Journey Storyboard Tool TABLE 132

ELLEN RUAN (BSI)

This project addressed how UX designers rely on assumptions when creating storyboards, often missing key user needs. It developed an AI tool that generated and analyzed user journeys to identify pain points and suggest improvements, helping designers create more user-centered designs.

AI-Powered Academic Scheduling Assistant TABLE 133

MOLLY ADLER (BSI)

College students struggle to manually track deadlines across courses, leading to missed assignments and poor time management. This project developed an AI-powered application that ingests course syllabi and populates a student's Google Calendar with deadlines, flags high-conflict weeks, and drafts extension request emails.

Agentic AI Trend Intelligence Agent TABLE 134

YUNJIE ZOU (MHI)

This project addressed the difficulty of keeping up with fast-moving developments in artificial intelligence. It built an AI agent that autonomously collected, filtered, and summarized industry updates, while organizing companies, models, products, and capabilities into a knowledge graph for structured trend analysis.

Using Agentic AI To Improve Traveling Plans TABLE 135

SAM KODA (BSI)

This project is about building a "Chicago Personal Travel" agent that lets tourists find hotels by uploading a photo of a style they like or a map of their desired area. The agent uses vision and multi agent reasoning to find matching Chicago hotels and verifies their "vibe" against real time social and transit data.

AI Conflict Resolution and Safety Reporting for Schools TABLE 136

MARINA ZHAI (BSI)

Youth violence is a leading cause of death for ages 10–24 in the US, and many student conflicts go unreported. This project developed an AI system providing students with real-time de-escalation guidance and anonymous reporting, enabling earlier intervention and improving school safety.

AI Language Teacher TABLE 137

EZEDDIN KAMEL (BSI)

A near-fluent Spanish speaker learning English still gets pushed through beginner lessons, while a true beginner gets overwhelmed by content that moves too fast. There is no tool that dynamically assesses a learner's current level and continuously adjusts difficulty to keep them in the optimal learning zone.

SI 699 User Experience Research and Design

Assisting Users in Identifying Generative AI Content on Social Media

TABLE 140

HIRA EIRAJ DAUD (MSI)

This project addressed the lack of transparency regarding Generative Artificial Intelligence (GenAI) on social media. The researcher developed universal GenAI identification guidelines and prototypes for Instagram, YouTube, and X. These signifiers reduced cognitive load and empowered users.

Beacon - Accessible AV Onboarding for Blind & Low vision (BLV) Riders on Campus of Future

TABLE 141

DHRUVI JAGANI (MSI), AASRITHA NARAYAN (MSI), GENNIFER HOM (MSI), SWETHA KONDURU (MSI)

Beacon is an accessibility-first onboarding system for blind and low-vision riders using autonomous vehicles on campus. It combines vehicle and app-based audio, wearable haptics and spatial guidance to help riders find the right vehicle, board safely and ride with confidence.

Beyond the Score: Designing Trustworthy LLM Evaluation

TABLE 142

HYEBIN PARK (MSI), KATE MITANI (MSI), AYANA LEELASENA (MSI)

As large language models (LLMs) proliferate, developers struggled to evaluate which models best fit their needs. This team partnered with Backboard.io to redesign StackEval, their LLM evaluation platform, proposing custom metrics, guided task setup, and model recommendations for more confident, trustworthy AI evaluation.

BSPBlueprint: Optimizing the First-Time Behavioral Testing Experience

TABLE 143

CECILIA HUYNH (MSI), JINNY KIM (MSI), QIZI YU (MSI), SHRUTHI ARAGONDA (MSI)

This project redesigned the first-time onboarding experience for BSPBlueprint, a behavioral testing platform. The redesign clarified the testing process, reduced early confusion, and helped new users start more smoothly and confidently.

Consensus: Framework for Transparent Voter Communication

TABLE 144

NIKET KAMAT SATOSKAR (MSI), ESHANG SHAH (MSI), DHANUSH RAVI (MSI)

This project addressed the lack of transparency in voting, where voters had no visibility into what happened to their votes after voting or casting their ballot. It proposed a system with design principles, communication touch-points, and a secure mobile interface to track votes, improving trust and transparency.

Designing Digital Room Key Workflows for Hotel Group Check-Ins

TABLE 145

ROSHNI VIJAY RAISINGHANI (MSI), MARZHAN NURDAULETOVA (MSI), RESHAD ALAM (MSI), RASHMI VIJAY RAISINGHANI (MSI)

This project evaluated hotel check-in experiences using PassiveBolt's KeyShare platform. Research found that group check-ins are among the most efficient hotel workflows, but efficiency drops when shifting to digital keys. The team explored design opportunities to improve digital key distribution and operational efficiency.

Expanding Information Sharing and Improving Access to Poverty Law Resources

TABLE 146

VALERIE CHUA (MSI), SARA CARRIER (MSI), GONI KIM (MSI), COLIN BERGEN (MSI)

The Michigan Poverty Law Program supports legal aid attorneys statewide, but current systems make it difficult to access key resources. This project redesigns how information is organized and shared, improving discoverability and enabling collaboration to better serve low-income communities and advance access to justice.

Reimagining MSI Community and Space within Leinweber

TABLE 147

LYNN SABIEDDINE (MSI), DAHIKA AHMED (MSI), HUDA HASSOUN (MSI), JUSTIN MASON (MSI), SABRENA CHEDID (MSI)

UMSI master's students lack community space and belonging at the Leiweber Building and the UMSI community at large. Partnering with the Culture of Care Committee, this project developed a strategic proposal, a reimagined future, and proof-of-concept initiatives to build a long-term, engaging community within UMSI.

Supporting Automaticity in Long Term Habit Making

TABLE 148

MELANIE MARTINEZ-LOPEZ (MSI), ELLIE HAIST (MSI), JANAI ADAMS (MSI), JESS CHO (MSI)

Current habit-building apps do not support users in forming long-term habits that can be maintained without tech. This project identified a new, research-based way of helping users start new behaviors that continue even after they get bored of an app.

Teachers' Lounge: A Supportive Platform for Teachers

TABLE 149

ILANA MERMELSTEIN (MSI), CIANI FOY (MSI), CATHERINE LILLY (MSI), NITHYA DUGGARAJU (MSI)

Early career teacher attrition represents a well documented challenge in K–12 education. Teachers' Lounge offers teachers with a supportive, collaborative, and approachable community, along with opportunities for mentorship. Widespread adoption among teachers can increase feelings of support and improve retention.

Unveiling the Truth: Designing for Rental Transparency through Community Voices

TABLE 150

KAYLA GUILLEN (MSI), SARAH PENROSE (MSI), ALICE ZHANG (MSI), SABRINA YU (MSI)

Current and prospective tenants in Washtenaw County lacked access to reliable housing information, pressuring them to make housing decisions under uncertainty. The Commons aimed to provide transparency through housing insights and community support, empowering tenants to make informed choices about their standard of living.

SI 699 User-Centered Agile Development

Access U-M: A Mobile Accessibility Reporting Platform TABLE 151

RACHEL GONZALO (MSI), KELVIN CHANG (MSI), BEN TSAI (MSI), ZICHEN ZANG (MSI), LILY MADOJEMU (MSI), ANDY XU (MSI)

This project was developed with the University of Michigan Disability Equity Office to address accessibility barriers across campus. The team created a mobile app for real-time reporting with geolocation and photo uploads, improving issue tracking and resolution.

SI 698 Master's Thesis Option Program

Algorithmic and Gender-Specific Challenges in the Indonesian Ride-Hailing Industry TABLE 152

ANNISA YUDIANI (MSI)

Gig platforms limit workers' autonomy through their algorithms. Women ride-hailing drivers face additional safety risks and discrimination in this male-dominated industry. Through interviews with 16 Indonesian women drivers, this study explores their coping strategies and proposes recommendations to advance gender equity.

SI 699 User-Centered Agile Development

Bringing Fowlerville District Library to Your Fingertips TABLE 153

LAMI TRAN (MSI), KHOA NGUYEN (MSI), ANNISA YUDIANI (MSI), JESSICA SHEN (MSI), CINDY LUN (MSI)

Fowlerville District Library's website left much to be desired, making it hard for patrons to find and access what they needed. This project brought Fowlerville District Library into the digital age by building an intuitive mobile application that connected patrons to library materials anytime, anywhere.

Cultural and Educational Interactive Experience for Polish Festival Visitors TABLE 154

SIRAAJ KUDTARKAR (MSI), BORAN YANG (MSI), JONTE TAFFE (MSI), SAMANTHA PRATT (MSI), XIWEN CAO (MSI)

Developed for the Muskegon Polish Festival, the project expands awareness of Polish heritage and lowers barriers to cultural learning. The team created an interactive tablet app and quiz that guide discovery, provide historical context, and extend engagement beyond the festival.

NOAA GLANSIS Watershed Lookup Web App TABLE 155

JI YOUNG NAM (MSI), YELNAZ RYSBEK (MSI), JINGLE CHEN (MSI), KYLE STOCKSDALE (MSI), ZOE CORSER (MSI)

This project partnered with Michigan Sea Grant and the National Oceanic and Atmospheric Administration to design a watershed lookup web tool that lets teachers and resource managers find hydrologic unit codes for local watersheds and print surrounding maps, supporting place-based Great Lakes education and stewardship.

Stacked Mentorship: A Digital Mentoring Tool Connecting and Supporting Projects and Teams TABLE 156

TORI TURPIN (MSI), SUHAIB ABDULHAY (MSI), SHAMITA RAO (MSI), MELISSA WALTERS COLLINS (MSI), SRISHTI LURTHA (MSI)

This project involved developing a web-based platform for the Consortium for Research Excellence's Stacked Mentorship Program. The platform enables flexible cohort-based communication and collaboration, making mentoring more accessible and connected for research teams and institutions.

Poster Location by Partner/Client

Aga Khan University
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American College of Thessaloniki
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American Library Association Chicago - American Association of School Librarians
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American Library Association Chicago - Marketing Department
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Ann Arbor Hands-On Museum
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Michigan Medicine C.S. Mott Children's Hospital
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Detroit School Library Collective
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Doing Development Differently in Metro Detroit
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Eau Claire District Library
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Electric Power Research Institute
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Food Gatherers
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Fowlerville District Library
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Frankel Jewish Academy
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University of Michigan Inter-university Consortium for Political and Social Research
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Michigan Medicine Health Information Technology & Services
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Michigan Poverty Law Program
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Youth Solutions
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Student Designer Acknowledgment and Bio

UMSI 2026 Exposition Award badges and graphics designed by UMSI student Colin Bergen (MSI).

Colin is someone who has worn many hats - multimedia student, marketing writer, and now UX professional. He owes his creativity and success to that diverse background, as well as the support of his friends, family and professors. He is proud to have been selected to have his logo designs used in the 2026 Expo and is excited to see where his journey takes him next.

Acronyms and Abbreviations

UMSI Degrees

BSI	Bachelor of Science in Information
MSI	Master of Science in Information
MHI	Master of Health Informatics
MADS	Master of Applied Data Science

Non-UMSI Degrees

BA	Bachelor of Arts
BBA	Bachelor of Business Administration
BS	Bachelor of Science

Other Common Acronyms

AI	Artificial Intelligence
API	Application Programming Interface
AR	Augmented Reality
DS	Data Science
EDA	Exploratory Data Analysis
IA	Information Architecture
LAKES	Libraries, Archives, and Knowledge Environments in Society
LLM	Large Language Models
MTOP	Masters Thesis Option Program
NLP	Natural Language Processing
UI	User Interface
U-M	University of Michigan
UMSI	University of Michigan School of Information
UX	User Experience
VR	Virtual Reality
XR	Extended Reality

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