

ISABELLE DONOGHUE

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EDUCATION

University of Michigan College of Engineering

Graduation: May 2026

- **Major:** Computer Science Engineering **Minor:** User Experience Design **GPA:** 3.62/4.0
- **Relevant Coursework:** Machine Learning, Web Systems, Data Structures and Algorithms, Computational Theory, Computer Organization, Big Data in Biomedical Sciences, Programming and Intro Data Structures, Discrete Mathematics, Web Development and Accessibility, Needs Assessment and Usability Evaluation
- **Honors:** Engineering Dean's Honor List (F22 - W25), University Honors (F22 - W25)

EXPERIENCE

Ford Motor Company

June 2025-August 2025

Software Design Intern

Dearborn, MI

- Developed high-fidelity prototypes for Ford's towing experiences in Figma and ProtoPie, supporting in-vehicle user testing and cross-functional stakeholder demos
- Engineered Python scripts with Socket.IO for backend integration of vehicle CAN signals with design prototypes

Freelance

June 2024-Present

Web Developer

Ann Arbor, MI

- Modernizing digital operations for 5+ Ann Arbor businesses, including a consulting firm and a florist, by independently designing and developing full-stack websites, achieving significant cost savings for each company
- Taking initiative to enhance client online presence with custom web solutions tailored to specific business needs

The Michigan Daily

January 2024-August 2025

Web Engineer

Ann Arbor, MI

- Led design and development of interfaces and internal systems, enhancing usability and teamwide collaboration
- Coded the Freshman Orientation website, achieving the highest user engagement of 2024

PROJECTS

Machine Learning Pipeline for Alzheimer's Brain Classification

May 2025

- Built ridge regression and neural network models to classify MRI brain scans with 97.5% accuracy
- Engineered data pipelines in Python and MATLAB to process large scale imaging and genomic datasets

University Flower Shop Flower Finder

July 2024

- Contracted to develop a full-stack flower comparison tool with advanced data scraping from wholesale websites
- Implemented an interactive frontend, custom API, and SQL database for query-based flower data comparison

CLUBS & ORGANIZATIONS

Kappa Theta Pi (Professional Technology Fraternity)

August 2023-Present

Director of Website Development, App Project Manager and Developer

Ann Arbor, MI

- Managing and implementing app features, including widgets and Google Calendar integrated meeting scheduler
- Leveraging usability testing and accessibility auditing to develop an intuitive and engaging organization website

Collaborative Lab for Advancing Work in Space

August 2022-January 2023

Web Developer and UX Designer

Ann Arbor, MI

- Designed and coded a Mission Control Center site as part of an AR project to assist astronauts on lunar missions
- Selected as one of nation's top 10 final teams at 2023 NASA SUITS challenge representing University of Michigan

SKILLS

- **Languages & Tools:** Python, C/C++, Java, JavaScript, SQL, MATLAB, HTML/CSS, Git, Figma, ProtoPie
- **Frameworks & Platforms:** React, Node.js, Flask, REST API, Socket.IO, AWS
- **Systems & Concepts:** Machine Learning, Distributed Systems, Concurrency, Networking, CAN Signal Integration