ISABELLE DONOGHUE

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EDUCATION

University of Michigan College of Engineering   Exp. Graduation: May 2026
- **Major:** Computer Science Engineering **Minor:** User Experience Design **GPA:** 3.62/4.0
- **Relevant Coursework:** Web Systems, Data Structures and Algorithms, Programming and Intro Data Structures, Discrete Mathematics, Web Development and Accessibility, Needs Assessment and Usability Evaluation Introduction to Computers and Programming, Statistics, Linear Algebra, Multivariable Calculus III
- **Honors:** Engineering Dean's Honor List (F22 - W24), University Honors (F22 - W24)

EXPERIENCE

Freelance Software Developer   June 2024-Present
- Modernizing digital operations for various 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-Present
Web Engineer   Ann Arbor, MI
- Leading design and development of interfaces, including a full-stack remodel of the Daily Application Portal
- Coded Freshman Orientation and Campus Life Beat websites, achieving the highest user engagement of 2024
- Engineering internal systems and collaborating across sections to enhance reader and employee experiences

Joy Of Coding   May 2024-Present
Student Coach   Ann Arbor, MI
- Instructing 500+ high-schoolers globally in introductory coding concepts through a virtual summer program
- Developing interactive lessons to teach debugging and reinforce understanding of Python programming skills

PROJECTS

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

Scalable Search Engine   June 2024
- Built search engine with MapReduce for parallel processing, a segmented inverted index, REST API, and interface
- Applied tf-idf & PageRank for retrieval, gained experience in distributed systems and large-scale data processing

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

- C++, C, Python, JavaScript, SQL, React, HTML5, CSS,, Matlab, Node.js, Flask, REST API
- AWS, Figma, Visual Studio Code, Git, Networking, MapReduce, Distributed Systems, Concurrency
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