

Emily Ma

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Education

University of Michigan, College of Engineering

Bachelor of Science in Engineering, Computer Science

Minor in User Experience Design

Ann Arbor, MI

May 2026

- GPA: 4.0
- Course Highlights: Data Structures and Algorithms, Web Design, Development, and Accessibility, Computer Organization, Foundations of Computer Science

Projects

Eat With Em - Recipes Website

August 2023 - December 2023

- Conceptualized and developed "Eat With Em," a personalized online platform featuring a curated selection of easy and nutritious recipes tailored for college students.
- Solely handled design and development using HTML, CSS, and Javascript, using responsive design principles to ensure a user-friendly interface.

Puzzle Solver

September 2023

- Developed a C++ algorithm utilizing BFS and DFS graph search algorithms to solve complex 3D mazes, with a user-friendly command line interface.

Activities

Member | MedLaunch

Sept 2023 - PRESENT

- Work in a team to develop a mental wellness app designed to track user input and generate Ann Arbor-based recommendations.

Member | Michigan Daily Web Team

Sept 2023 - PRESENT

- Use modern OCR technology to improve the formatting of text transcriptions of the Michigan Daily Archives.

Logistics Team | MHacks

Sept 2023 - November 2023

- Coordinate all logistics for University of Michigan's premier hackathon, including food, funds, and overall event operations.

Finance Chair | Asian American High School Conference

August 2023 - November 2023

- Managed grant applications, raising over \$5000 for a statewide AAPI high school conference.

Work Experience

US Bank

Minneapolis, MN

Software Engineering Intern

June 2024 - PRESENT

- Develop full stack solutions for the ExtendPay feature using React, JavaScript, Java, REST APIs, and GraphQL, addressing bugs, implementing new features, and optimizing functionality for web and iOS/Android platforms.
- Collaborate with cross-functional teams, participate in code reviews, and follow agile methodologies to ensure high-quality software delivery.

Society of Hispanic Professional Engineers (SHPE)

Ann Arbor, MI

Computer Science Tutor

August 2023 - May 2024

- Conducted engaging virtual study sessions for EECS 280 (Programming and Data Structures), adeptly catering to diverse learning styles and facilitating active student participation.

University of Michigan, Draelos Lab

Ann Arbor, MI

Undergraduate Research Assistant

January 2024 - May 2024

- Utilized advanced data analysis techniques, including Pro-SVD, to extract insights from streaming video data of mouse behavior and correlate findings with neural data from two-photon imaging.

Skills

- **Programming/Development** | Java, C++, Python, C, SQL, JavaScript, HTML5, CSS
- **Frameworks/Libraries** | React, React Native, NodeJS, Django, GraphQL, REST APIs
- **Tools/Software** | Git, Linux, Unix, Figma, Microsoft Office (Excel, Word, PowerPoint), LaTeX