

# Melina O'Dell

[melodell@umich.edu](mailto:melodell@umich.edu) | (989) 860-2581 | [LinkedIn](#) | [GitHub](#) | [Website](#)

---

## EDUCATION

### University of Michigan — Ann Arbor, MI

Master of Science in Engineering in Computer Science

August 2023 – December 2024

Bachelor of Science in Engineering in Computer Science

September 2019 – April 2023

- GPA: 3.85/4.00
  - Relevant Coursework: Web Systems, Software Engineering, Database Management Systems, Information Retrieval and Web Search
- 

## EXPERIENCE

### Verkada — San Mateo, CA

May 2023 – August 2023

Frontend Software Engineering Intern

- Created new interactive, transformable Verkada door device representation for Floorplans UI using **React, TypeScript, Redux, and SVG elements, improving customer experience by 33%** by expanding product compatibility
- Improved existing project architecture by **designing generalized and reusable types and components** to support future product expansion
- **Documented implementation plans and engineering tradeoff discussions** in a comprehensive technical project specification, enhancing project clarity and boosting cross-team awareness
- Worked collaboratively with Product and Design teams to make **frequent, iterative improvements to UX** and ensure delivery of MVP by end of quarter

### University of Michigan College of Engineering — Ann Arbor, MI

August 2022 – Present

Web Systems Teaching Assistant

- Assisted teaching an upper-level CS course of **700+ students**, covering **full-stack development** using Flask, SQL, and React, AWS deployment, REST APIs, MapReduce, Hadoop, and search engines
- **Lead weekly lab sections for 30+ students to promote independent learning** and provide hands-on practice with fundamental web development concepts and debugging techniques
- Maintained course autograder by **writing new unit tests** and **updating and deploying Docker images**
- Implemented enhancements for instructor solutions to support **continuous refinement of course projects**

### The Michigan Daily — Ann Arbor, MI

December 2022 – Present

Project Manager and Web Developer

- **Organized and lead weekly subteam meetings** and facilitated cross-team collaboration to ensure clear communication and progress towards project goals
- Interfaced frequently with Product team to clarify UI/UX requirements and meet rapid deadlines
- **Maintained technical specifications** and utilized project management software (Notion) to track development progress and timelines for **5+ projects simultaneously**
- Developed special project websites visited by **3000+ users/week** using **React, HTML/CSS, MaterialUI, and AWS services**

### Learning A-Z — Ann Arbor, MI

May 2022 – August 2022

Software Engineering Intern

- Built and documented a **full-stack dashboard** feature to display four types of classroom performance statistics to teachers using **Angular, Laravel, and MySQL**
  - Presented research project on **cloud deployment** and demoed hosting a Flask app using Google Cloud App Engine and Datastore
  - Designed **high-coverage unit tests** and participated in code reviews to improve code quality and maintainability
- 

**PROJECTS** — See more on my [Personal Website](#), [GitHub](#), and in my [Dotfiles!](#)

### Twitter Countdown Bot — [Source Code](#)

August 2021

- Planned and developed a bot using Python to post scheduled tweets counting down to a movie premiere
  - Tweets were actively shared and viewed **3000+ times/day**
  - Utilized the Tweepy library to **interface with the Twitter API** and **deployed to Heroku**
- 

## SKILLS

**Languages/Tools:** JavaScript, TypeScript, React, Redux, Angular, Python3, HTML/CSS, PHP, SQL, C/C++, Flask, Git, AWS, Heroku, Docker, cURL

**Software:** VSCode, Xcode, Emacs, IntelliJ platform, phpMyAdmin, Notion, Linear