Melina O'Dell

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EDUCATION

University of Michigan — Ann Arbor, MI

Master of Science in Engineering in Computer Science   *April 2024 (expected)*

Bachelor of Science in Engineering in Computer Science   *September 2019 – April 2023*

- GPA: 3.84/4.00
- Relevant Coursework: Data Structures and Algorithms, Web Systems, Software Engineering

EXPERIENCE

University of Michigan College of Engineering — Ann Arbor, MI   *August 2022 – Present*

Web Systems Instructional Aide

- Assisted teaching an upper-level CS course of 500+ 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 reinforce lecture material and provide hands-on practice with fundamental web development concepts
- Held office hours and moderated an online Piazza forum to offer individual guidance on project requirements and debugging techniques
- Implemented bug fixes and enhancements for instructor solution repositories to support continuous refinement of course projects

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
- Participated in daily scrum meetings and provided regular status updates to Engineering team
- Presented research project on cloud deployment and demoed hosting a Flask app using Google Cloud Datastore on Google Cloud App Engine
- Wrote high-coverage unit tests and participated in code reviews to improve code quality and maintainability

The Michigan Daily — Ann Arbor, MI   *February 2022 – Present*

Web Developer

- Developed special project websites using React, HTML/CSS, MaterialUI, and AWS services
- Created a full-stack interactive voting site for Ann Arbor businesses, visited by 3000+ users/week
- Interfaced with Product Design team to clarify UI/UX requirements and meet rapid publication deadlines

PROJECTS

Twitter Countdown Bot — Self-Directed   *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 access the Twitter API and deployed to Heroku
- Source Code: https://github.com/melodell/movie-countdown

SKILLS

Languages/Tools: Python3, JavaScript, TypeScript, Angular, React, PHP, C/C++, SQL, HTML/CSS, Flask, Git, Heroku, AWS
Software: Xcode, IntelliJ platform, phpMyAdmin

ACTIVITIES AND CLUBS

Girls in Electrical Engineering and Computer Science (GEECS)   *September 2021 – Present*

Social Media Manager

- Promoted professional events and STEM resources to 600+ members and alumni
- Designed flyers and merchandise for current GEECS members