

# Meigan Lu

Davis, CA | (408) 609 - 8171 | meiganlu@gmail.com | linkedin.com/in/meigan-lu

## EXPERIENCE

### Computer Technical Support Intern

*De Anza College*

**Cupertino, CA**

*Oct 2022 - May 2023*

- Assembled and restored 50+ laptops from reclaimed parts to support low-income students and veterans.
- Identified software configuration solutions on the Windows operating system, leading to a 46% decrease in BIOS boot time and reduced driver errors.

## PROJECTS

### Auto-dimming Headlights and Object Detection System | C++, Arduino

**Sept 2023**

- Engineered an embedded vehicular safety test model in a team of 3 others, integrating auto-dimming headlights and an alarm system feature to identify unforeseen obstacles in a tight 4-day timeline.
- Aided in executing C++ and Arduino for real-time object detection using an ultrasonic sensor, ensuring optimal performance of the data range analysis algorithm with an 86% detection accuracy.
- Contributed research for the eco-car trial project of a UC Davis professor with our comprehensive data insights.

### MegaMart | Java

**Mar 2022**

- Created a Java-based virtual grocery store in a team of 4 others comprising a user login hashtable database and a user-friendly interface for viewing, sorting, and tracking grocery items and orders.
- Optimized shopping cart heap database for enhanced functionality, enabling editing and deletion of grocery entries.

## SKILLS

- **Languages:** Java, C++, Python, Latex, R, Go, JavaScript, HTML/CSS
- **Frameworks:** Eclipse, VS Code, PyCharm, Node.js, Git
- **Transferable Skills:** Communication, Analytical, Problem-solving, Self-driven, Collaboration, Detail-oriented
- **Relevant Coursework:** Data Abstraction and Structures, Object Oriented Analysis and Design, Linear Algebra, Discrete Mathematics, Differential Equations, Algorithm Design and Analysis

## LEADERSHIP

### Student Engagement Officer

*Student Alumni Association*

**Davis, CA**

*Nov 2023 - Present*

- Developing inclusive student-alumni engagement events, encouraging an extensive supportive mentorship network.

### External Affairs Officer

*Girls Who Code*

**Davis, CA**

*Sept 2023 - Present*

- Conceptualizing and organizing strategies, budgets, and promotion plans to enhance and influence public outreach.
- Facilitated the establishment of UC Davis' pioneering hackathon for marginalized groups in STEM by fostering cross-functional collaboration and incorporating feedback into advertising campaigns, resulting in 100+ attendees.

### Public Relations Manager

*Women in Computer Science*

**Cupertino, CA**

*May 2022 - June 2023*

- Designed event-related graphics, setting quality standards and increasing member engagement by 10%.
- Directed technical workshops using a project-based approach to teach the rudimentary fundamentals of programming and algorithm design using C++ and Python.

## EDUCATION

### University of California, Davis

*Bachelor of Science in Computer Science*

**Davis, CA**

*Expected Graduation: June 2025*

- **Awards/Scholarships:** CAAA Leadership Scholarship, AvenueE Scholar