

# Charlie Liu

Charlieliu0104@gmail.com ❖ (408) 508-1859 ❖ Mountain View, CA

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## EDUCATION

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### University of Wisconsin-Madison

BS, Computer Science

May, 2025

*Madison, Wisconsin*

- GPA: 4.0/4.0
- Relevant Coursework: Data Structures, Algorithms, Machine Organization, Compilers, and UI Design

## SKILLS

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- Languages: Java, Python, C++, C, HTML, CSS, JavaScript
- Web Services: AWS Amplify and Google Domains
- Web Development Stack: React, Node.js, and MongoDB

## EXPERIENCE

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### Badgerloop

Software developer

Aug. 2023 – Current

Madison, Wisconsin

- Developed a user-friendly dashboard for real-time monitoring and management of the solar racing car, using React.
- Utilized Node.js to implement APIs for seamless data integration and optimized performance, enhancing the solar racing car's dashboard functionality.

### MadHousing

Frontend developer

Dec. 2023 – Current

Madison, Wisconsin

- Utilized HTML, CSS, EJS, and Bootstrap to create the user interface of MadHousing, which receives more than 27,000 page visits.
- Integrated React elements into the code, resulting in a cleaner and more reusable codebase by leveraging the component-based architecture and enhanced modularity of React.

### Great America

Lifeguard

Jul. 2023 – Aug. 2023

*Santa Clara, California*

- Skilled in performing surveillance and enforcing pool rules
- Equipped with water rescue techniques for administering first aid and CPR, demonstrating a calm and composed demeanor in high-pressure situations.

## PROJECTS

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### clportfolio.net

Personal Website

Aug. 2023 – Present

- Developed a portfolio website that showcases my interests, projects, and work experience
- Deployed using AWS Amplify and Google Domains, created using HTML, CSS, and Javascript
- Mobile, Ipad, Macbook compatibility

### Cone Line Drawer

Autonomous Car

Jun. 2023 – Jul. 2023

- Process images and draws lines across a line of cones
- Image filtered for cars to navigate through cones