

Charlie Liu

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EDUCATION

University of Wisconsin-Madison

BS, Computer Science

May, 2025

Madison, Wisconsin

- GPA: 4.0/4.0
- Relevant Coursework: Data Structures, Algorithms, Compilers, and UI/UX

EXPERIENCE

MadHousing

Frontend developer

Dec. 2023 – Current

Madison, Wisconsin

- Designed the user interface of MadHousing utilizing HTML, EJS, and Bootstrap which received more than 100,000 page visits.
- Reformatted to React elements in the codebase and utilized Next.js for server-side rendering, resulting in a cleaner and more reusable codebase and a noticeable increase in application speed.

Badgerloop

Software developer

Aug. 2023 – Current

Madison, Wisconsin

- Developed a digital dashboard for drivers in a solar-powered car, using React to provide real-time monitoring of the vehicle's status.
- Implemented Node.js-based APIs to dynamically render graphical data for driver interfaces, enhancing data visualization capabilities for the driver.

Great America

Lifeguard

Jul. 2023 – Aug. 2023

Santa Clara, California

- Demonstrated expertise in team collaboration, efficiently coordinating rotations, fostering clear communication, and providing mutual support during demanding shifts and emergency scenarios.
- Equipped with water rescue techniques for administering first aid and CPR, demonstrating a calm and composed demeanor in high-pressure situations.

SKILLS

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

PROJECTS

clportfolio.net

Personal Website

Aug. 2023 – Current

- Developed using HTML, CSS, and Javascript with responsive design that showcases my experience and projects.
- Deployed using AWS Amplify and Google Domains, leveraging Amplify's scalability to handle traffic.

readelf.c

ELF File Reader

Nov. 2023 – Dec. 2023

- Built a robust readelf function in C to parse ELF headers, to extract meticulous data for execution and linking.
- Enhanced readelf's functionality to visualize how ELF file sections are grouped into memory segments.

