James Wu

909-378-0462 | jamesw0462@gmail.com | linkedin.com/in/james-wu

Education

University of California Los Angeles   Expected Graduation: June 2025
Bachelor of Science, Mechanical Engineering   **GPA: 3.86**
Dean's Honors List
Coursework: Data Structures; Intro to C++; Linear Algebra; Single and Multivariable Calculus; Mechanics + Lab; Oscillations, Electricity, and Waves
To be completed by June 2023: Computer Organization; Software Construction; Algorithms; Differential Equations; Discrete Math

Experience

Hussle *Front End Development Intern*   **January - April 2022**
· Constructed and implemented several screens and features of the Hussle app, an online student marketplace app, using React Native.
· Built user profile page, saved posts screen and functionality, navigation within app, and an infinite-scroll user feed displaying all available services and products offered by the community.
· Collaborated with internal teams including graphic designers, application testers, and product management to develop and launch the functioning application on the iOS store within 4 months.
· Integrated and applied over 15 unique and reusable components for front end elements.

UCLA ACM – Hack *Officer*   **November 2021 - Present**
· Directed an 8-week project-based series "HackSpace", managing 100+ people and guiding teams in app, web, and game development, resulting in 7 completed products by the conclusion.
· Maintained the ACM Hack and HOTH websites with a team of 10 other developers, updating the Hack Archive and Event pages with past/current workshops and HOTH gallery page with submissions.
· Developed curriculum and taught beginner-friendly workshops on Swift and React Native for a mobile development series (Hack Sprint) and a hackathon (Hack on the Hill).

Projects

CNC Machine Monitor *Data to AWS and ASP.NET / React.js Web Application*   **June - July 2022**
· Created a solution for Industry 4.0 machine metrics by monitoring CNC machines in shop to track production.
· Programmed a console app to collect data from CNC Machines via MTConnect and send to AWS cloud.
· Built a REST API service for CRUD operations for AWS MySQL database.
· Implemented a web app dashboard to display production status data using time charts for all machines, with real time and historical data. Tells users if machine is producing, waiting for operator, or requires service.

Bruin Meal Tracker *React Native Application*   **March 2022**
· Solved a campus-wide problem by creating an app to conveniently identify whether a student was on track to be over or under their allotted meal swipes for the current quarter.
· Developed an understanding of React Native applications and the fundamentals of web-scraping.

Pathfinding Autonomous Rover *Team Engineering Project*   **October - December 2021**
· Designed, assembled, and coded a fully autonomous rover capable of navigating through a path, avoiding obstacles, and moving a target block to a given location with a team of four engineers.
· Independently automated rover with C++ through the Arduino IDE, optimizing pathfinding implementation.

Skills

Programming Languages: C++, Java, HTML/CSS, JavaScript, SQL
Technologies: React Native, Git/Github, AWS, React.js