

James Wu

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EDUCATION

University of California, Los Angeles (UCLA)

Expected June 2025

- Major: B.S. Computer Science
- Current GPA: 3.9 / 4.0, Dean's Honors List
- Coursework: Theory of Computing, Programming Languages, Algorithms and Complexity, Software Construction, Computer Architecture, Data Structures, Engineering of Complex Systems, Logic Design of Digital Systems

EXPERIENCE

GrammaTech | Software Engineering Intern

06/2023-09/2023

- Programmed a fullstack feature to detect dynamically linked libraries (DLL), alerting customers of potential security vulnerabilities in their applications. Feature is currently in production, used by 200+ companies across 6 industries.
- Built DLL filtering functionality by architecture, path, or platform using Angular.js and GraphQL queries to enhance user experience.
- Introduced a TypeScript service to detect window resize changes and made product dashboard responsive to increase user accessibility.
- Modified configuration code to speed up development build times by 94%, reducing refresh speed by 47 seconds for efficient testing.

Hussle | Software Engineering Intern

06/2022-09/2022

- Coded app interface using React Native, creating multiple screens, user authentication, and a user feed exhibiting available products.
- Self-taught Tensorflow, improving accuracy of text sentiment detection by 30% in order to flag inappropriate comments for review.
- Refactored existing code to ensure best coding practices for scalability, resulting in efficiency putting us 3 months ahead of schedule.
- Collaborated with designers and testers to launch application on iOS store within 4 months to 15,000 UCLA students.

DevX | Software Engineering Intern

01/2022-6/2022

- Overhauled frontend of the Sike mobile app using React Native, making actions more intuitive and accessible.
- Added gesture handling and Lottie animations, leading to 80% increase in positive user feedback.
- Revised testing procedures and documentation to ensure code scalability and easier developer collaboration.

UCLA Association of Computing Machinery, Hack | President

11/2021-Present

- Managed 20 officers to maintain events and technical projects for 700+ general members, earning international recognition from ACM as the best organization for students' academic, professional, and personal growth.
- Led a technical workshop series "StackSchool" teaching fullstack web development using MERN to 100+ attendees.
- Director of "HackSpace", managing a team of 10 officers to teach 100+ participants how to develop unique apps, websites, and games.
- Maintained ACM Hack and HOTH websites with a team of 10 other developers using the Gatsby framework.
- Planned curriculum and taught beginner-friendly technical workshops on Swift, React Native, and React.js averaging 200+ attendees.

PROJECTS

Calico | React Native, Node.js, Firebase, Amazon Web Services S3

- Programmed a responsive React Native mobile app as a community-building tool for UCLA ACM's 700+ general members.
- Automated inefficient tasks including audience polling and competition leaderboard tracking using Firebase Firestore.
- Coded a discussion forum where users can share text/image posts using Firebase and AWS S3 bucket storage.

Pathfinder | React.js, Node.js, Express.js, MongoDB, Web Sockets (Socket.io), Amazon Web Services S3

- Deployed Pathfinder, a platform with 60+ active users enabling students to explore various careers and chat with industry mentors.
- Implemented features such as sorting articles/mentors by career interest and real-time chat using Socket.io, with 3000+ messages sent.
- Assembled a team of 12 mentors, curated 50+ pages of career advice articles, and wrote a Python script for integration into MongoDB.

Computer Numerical Control (CNC) Machine Monitor | React.js, Node.js, ASP.NET, MySQL, Amazon Web Services RDS

- Created a solution to enhance Industry 4.0 machine productivity by monitoring production data of 100+ real CNC machines and informing operators of aberrations/periods of inactivity, optimizing factory runtime and saving potentially millions in revenue.
- Developed a site to receive and parse machine data 24/7, displaying real-time/historical service states to users in filterable time charts.

Taigi - Taiwanese Dictionary | Java, Python

- Published app on Google Play Store, translating between Chinese, English, and Taiwanese and currently at 500+ downloads.
- Leveraged polymorphism for translation functionality, supporting 55,000+ phrases and traditional/simplified spellings of terms.
- Designed a search query enabling users to quickly filter through terms using Pinyin (a method to write Chinese words using English).

SKILLS

Programming: Python, C++, Java, JavaScript, TypeScript, SQL, Bash, HTML, CSS, Swift, Objective-C

Technologies: React.js, React Native, Angular.js, GraphQL, MySQL, MongoDB / Mongoose, Firebase, ASP.NET, Node.js, Express.js, Git / Github / Gitlab, Amazon Web Services RDS / S3 / DynamoDB, Next.js, Docker, Socket.io