James Wu

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EDUCATION

University of California Los Angeles **Expected Graduation: June 2025**
Bachelor of Science, Computer Science **GPA: 3.9**
Dean's Honors List

Coursework: Theory of Computing, Programming Languages, Algorithms and Complexity, Software Construction, Computer Architecture, Data Structures, Engineering of Complex Systems, Statistics, Discrete Math, Differential Equations, Linear Algebra, Multivariable Calculus

PROFESSIONAL EXPERIENCE

GrammaTech **Remote**
Software Engineering Intern **06/2023-Present**
· Independently implemented a new feature to detect dynamically linked libraries (DLL) in customers' applications, alerting them to potential vulnerabilities that may be exploited. The feature was successfully deployed and is currently used in production, providing value for customers.
· Built responsive and accessible user interface for this feature, incorporating sorting / filtering functionalities by architecture, path, or platform using Angular.js and custom GraphQL queries. Results of the analysis were displayed within the application, as well as the app and service ports.
· Introduced my own TypeScript service to detect window resize changes and made the product dashboard responsive for all screen dimensions.
· Modified configuration file code to improve development build times by 94%, speeding up refresh speeds from 50 seconds to 3.

Hussle **Remote**
Software Engineering Intern **06/2022-09/2022**
· Built app user interface, creating multiple screens, in-app navigation, and a user feed displaying all available products using React Native.
· Developed functionality for user authentication and saving specific posts, creating and calling endpoints for CRUD operations with Firebase.
· Refactored existing code to ensure best coding practices for scalability, resulting in increased efficiency putting us 3 months ahead of schedule.
· Explored natural language processing techniques and preprocessed data for a machine learning model that quantified sentiment of a given text using TensorFlow. This resulted in a 30% increase in accuracy of sentiment prediction, in order to flag inappropriate comments for review.
· Collaborated with graphic designers, application testers, and product management to deploy the application on the iOS store within 4 months.

UCLA Association of Computing Machinery - Hack **Westwood, Los Angeles**
President **11/2021-Present**
· Managed 20 officers and a $4000 budget to maintain events and technical projects throughout the year for 700+ general members, earning international recognition by the official ACM society as the best organization for the academic, professional, and personal growth of students.
· Led a technical workshop series "StackSchool" teaching the MERN technology stack to 100+ attendees and handling a $1000+ budget.. Participants were taught fundamental concepts of full-stack development and technical implementations to create their own unique projects.
· Directed an 8-week project-based series "HackSpace", overseeing 100+ people and guiding teams in app, web, and game development, resulting in 7 completed products by the conclusion. Coordinated between the UCLA CS department and club affairs, handling a budget of $800.
· Maintained the ACM Hack and HOTH websites with a team of 10 other developers using the Gatsby framework, handling and debugging issues as they arose. Conducted code reviews using GitHub issues and pull requests to adhere to best coding practices for all deployed projects.
· Developed curriculum and taught beginner-friendly technical workshops on Swift, React Native, and React.js averaging 200+ attendees.
· Proposed new teaching structures involving mentorship and marketing initiatives that resulted in a 70% greater retention rate within events.

PROJECTS

Pathfinder **06/2023-Present**
· Founded Pathfinder, a startup that allows students to explore their career interests and chat with professionals in those industries. This responsive web app provides authenticated user profiles, articles and mentors filtered by interests, and real-time messaging with connections.
· Led technical development of the 3 person project using MongoDB, React.js, Express.js, and Node.js, taking a full-stack development role on the team. Implemented homepage, navigation, authentication, messaging with socket.io, filtering features, and article and chat UI using React.js.
· Created a REST API for CRUD operations on a MongoDB database, designing endpoints and properly mapping backend data to the frontend.
· Grew the site to 60 users within 3 weeks of deployment. Designed all assets and oversaw marketing/outreach efforts, guiding the overall vision.

Computer Numerical Control Machine Monitor **05/2022-08/2022**
· Individually created a solution for Industry 4.0 machine metrics by tracking production stats of CNC machines in shop, implementing a full stack web application that displays real-time data using React.js and ASP.NET with data sent to an AWS relational database service.
· Developed a console app to send machine data to AWS cloud via MTConnect and created a REST API for MySQL database CRUD operations.
· Built a React.js web app dashboard with time charts displaying machine production status, including real time/historical data and service status.

SKILLS

Programming: C++, Java, Python, 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, AWS, Next.js, Docker