

ALAN JIANG

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EDUCATION

Bachelors of Computer Science , University of California, San Diego	Expected Jun 2027
<i>Relevant Coursework:</i> Machine Learning, Database Analytics, Software Engineering, Algorithms, Advanced Data Structures, Object-Oriented Design, Operating Systems, Data Science in Practice, Discrete Mathematics	
<i>Activities & Societies:</i> Chancellor's Scholar, Alpha Kappa Psi	

EXPERIENCE

Software Engineering Intern — <i>React, Python, FastAPI, Supabase</i>	Dec 2024 - Apr 2025
Axle	<i>San Diego, CA</i>
• Developed an automotive web application using React and FastAPI to connect mechanics with clients and streamline service interactions, supporting approximately 30+ initial users during the product's testing phase.	
• Integrated Google Maps API to record user's location and calculate user's serviceable distance in real-time, facilitating a 40% reduction in the time taken to connect customers with potential mechanics.	
• Collaborated in an Agile team environment, meeting weekly to discuss project trajectory and product features.	
Backend Developer — <i>Python, Flask, ngrok</i>	Jan 2024 - Jan 2024
ZotConfessions	<i>Irvine, CA</i>
• Implemented backend API endpoints using Flask and hosted on ngrok , supporting 500+ student confessions.	
• Built a fully automated content-moderation pipeline integrating Google Cloud Perspective API to filter out inappropriate submissions with an 85% toxicity threshold, reducing a 4-month backlog.	
• Delivered a fully functional application team of four undergraduates practicing effective communication and teamwork to deliver the project from ideation to deployment in <50 hours.	

Frontend Developer — <i>React, Firebase</i>	Apr 2024 - Apr 2024
LevelUpTogether	<i>Los Angeles, CA</i>
• Created a fully frontend fitness tracking web application using React and Firebase , enabling 100+ users to log their exercises and training volume, retrieving and delivering key workout statistics directly on the frontend.	
• Designed and styled interactive, easy-to-use user interfaces with React and CSS for seamless user interaction.	
PROJECTS	

House of Odds — <i>TypeScript, Konva.js, Prisma, Vitest, CI/CD, Agile</i>	Oct 2025 - Dec 2025
• Engineered an educational web game with casino-styled mini-games to help high school students learn probability.	
• Built a responsive frontend with TypeScript and Konva.js library for visuals, using Prisma to manage our database and following an MVC architecture to improve maintainability of our game.	
• Implemented automated testing using Vitest and integrated it into a CI/CD workflow with GitHub Actions .	
• Worked in a 6-member Scrum team, rotating as developer , tester , and scrum master to deliver sprint goals.	

Language Learner — <i>Python, SQLite, React, Vite</i>	Oct 2024 - Nov 2025
• Developed a web app that quizzes users with an I/O matching game, using a SQLite database that stores user-inputted vocabulary and Python script to reinforce vocabulary retention through repeated exposure.	
• Improved personal Mandarin exam scores by 15% with just 2 hours of daily practice for three weeks.	

SKILLS

Languages: TypeScript, Python, pandas, C/C++, SQL, JSON, JavaScript, HTML, CSS

Frameworks: Agile, Scrum, React, Next.js, Vitest, Tailwind CSS, Flask, JUnit, FastAPI

Databases: PostgreSQL, MySQL, SQLite, Supabase, Firebase, Prisma

Developer Tools: Figma, Git, Jira, CLI/Terminal, Vim, Unix

LEADERSHIP

Alpha Kappa Psi Pre-Professional Business Fraternity	Nov 2024 - Present
<i>Roles:</i> Brother, Webmaster	<i>La Jolla, CA</i>
• Maintained and evolved the organization's digital brand as Webmaster , redesigning and migrating the organization's website from Wix to a custom Next.js, Tailwind CSS , and Supabase stack.	
• Enhanced performance and scalability to support approximately 300+ monthly visitors, modernizing UI and optimizing load times.	