

ALAN JIANG

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EDUCATION

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

EXPERIENCE

Software Engineering Intern — *React, Python, FastAPI, Supabase* Dec 2024 - Apr 2025
Axle San Diego, CA

- 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 — *Python, Flask, ngrok* Jan 2024 - Jan 2024
ZotConfessions Irvine, CA

- 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 — *React, Firebase* Apr 2024 - Apr 2024
LevelUpTogether Los Angeles, CA

- 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 — *TypeScript, Konva.js, Prisma, Vitest, CI/CD, Agile* 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 — *Python, SQLite, React, Vite* 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
Roles: Brother, Webmaster La Jolla, CA

- 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.