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*   Dec 2024 - Apr 2025
Axle   *San Diego, CA*

- Developed a full-stack web platform using **React** and **FastAPI** to connect mechanics and clients, streamlining service interactions and supporting approximately **30+** initial users during the product's testing phase.
- Designed and implemented scalable backend **APIs** and data schemas to support client discovery, integrating **Google Maps API** for real-time geolocation services that improved customer-mechanic matching time by **40%**.
- Leveraged AI tools, such as **Claude**, for code generation and debugging to accelerate feature development.
- Collaborated in an **Agile** team environment, meeting weekly to discuss project trajectory and product features.

Backend Developer — *Python, Flask*   Jan 2024 - Jan 2024
ZotConfessions   *Irvine, CA*

- Built and deployed a **Flask** backend **API** supporting a high-volume, community-driven content platform supporting **500+** student confessions, prioritizing reliability, request handling, and content-moderation.
- Created a fully automated workflow to monitor toxic speech by 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 in a 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

Website Revamp (Alpha Kappa Psi) — *Next.js, Supabase, Vercel*   Mar 2025 - Aug 2025

- Collaborated with active members to manage and rebuild the organization's website design as **Webmaster**, translating branding goals and organization needs into a more modern and cohesive design.
- Migrated the organization's website from **Wix** to a custom **Next.js**, **Tailwind CSS**, and **Supabase** stack, ensuring future maintainability, improved performance to support approximately **300+** monthly visitors.

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.

SKILLS

Languages: TypeScript, Python, pandas, C/C++, SQL, JSON, JavaScript, HTML, CSS
Frameworks: React, Next.js, Flask, FastAPI, Vitest, Tailwind CSS, JUnit, Agile, Scrum
Databases: PostgreSQL, MySQL, SQLite, Supabase, Firebase, Prisma
AI/Developer Tools: Figma, Git, Jira, CLI/Terminal, Unix, Claude, ChatGPT, GitHub Copilot, Cursor

LEADERSHIP

Alpha Kappa Psi Pre-Professional Business Fraternity   Nov 2024 - Present
Roles: Brother, Webmaster   La Jolla, CA