ALAN JIANG

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EDUCATION

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

EXPERIENCE

Software Engineering Intern — *JavaScript, React, Python, FastAPI*   Dec 2024 - Apr 2025
Axle   *San Diego, CA*
- Developed a **customer-facing full-stack web** application using **React** and **FastAPI**, ensuring efficient data flows from **frontend UI to backend APIs** and streamlining client-mechanic service interactions.
- Designed and implemented scalable **REST APIs** and **relational data schemas**, improving **system reliability** that ensured **data integrity** and serving approximately **30+** initial users during the product's testing phase.
- Integrated **third-party APIs**, such as the **Google Maps API**, to power real-time geolocation services and decision logic that resulted in a **40% reduction in customer-mechanic processing/matching latency**.
- Utilized **AI LLMs**, such as **Claude**, for code generation and debugging to accelerate feature development.
- Collaborated in an **Agile** team environment, meeting weekly to discuss product specifications and features.

Backend Developer — *Python, React Native, Flask*   Jan 2024 - Jan 2024
ZotConfessions   *Irvine, CA*
- Built and deployed a **Flask-based backend API** service application, supporting a high-traffic, community **Instagram** page with **1000+** student confessions and prioritizing **reliability** and **content-moderation**.
- Implemented an **AI-driven** automation using **Google Cloud Perspective API** to filter out toxic speech with an **85%** threshold, reducing a **4-month** moderation backlog and increasing **performance**.
- Successfully delivered a deployment-ready application in a **fast-paced team environment** and under **50 hours** by effectively managing **system design** tradeoffs and implementation decisions.

Lead Developer/Webmaster — *TypeScript, React, Next.js, Supabase, Vercel*   Mar 2025 - Aug 2025
Alpha Kappa Psi   *San Diego, CA*
- Led the redevelopment of a **production website** as **Webmaster** for my business fraternity, collaborating with principal active members and stakeholders to gather product requirements for redesign.
- Migrated from **Wix** to a modern **Next.js** stack with **Supabase** and **Vercel** hosting, emphasizing **system maintainability** and optimizing **load times** to support **high performance** for **300+** monthly visitors.
- Created interactive **data visualizations** using **React** and **TypeScript** to display organization diversity.

SKILLS

Progamming Languages: Java, C/C++, TypeScript, SQL, Python, JavaScript, JSON
Systems/DevOps: Unix/CLI, CI/CD (GitHub Actions), Vercel, Firebase, Agile, Scrum
Backend/Fullstack: FastAPI, Flask, Node.js, REST APIs, React, HTML, CSS, JS, Next.js, Tailwind CSS
Databases: PostgreSQL, MySQL, SQLite, Supabase, Firebase, Prisma
AI/Developer Tools: Gemini, ChatGPT, Claude, Figma, Git, Jira, PyTorch, scikit-learn, Copilot, Cursor

PROJECTS

House of Odds — *TypeScript, Prisma, Vitest, CI/CD, Agile*   Oct 2025 - Dec 2025
- Created a **TypeScript-based** educational web game with casino-style mini-games using an **MVC design pattern** and **CI/CD** practices to ensure **separation of concerns** and **system scalability**.
- Implemented **automated unit testing** using **Vitest** and 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.

LevelUpTogether — *JavaScript, React, Firebase*   Apr 2024 - Apr 2024
- Engineered a **React-based** data-tracking dashboard with a **Firebase** database integrated directly onto the frontend, enabling users to track workout data in real-time with minimal latency.
- Designed responsive and accessible **user interfaces** using **React** and **CSS**, improving usability and engagement.

LEADERSHIP

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