Alvin Tran

San Francisco, CA | (415) 629-0992 | alvin.tran127@gmail.com | github.com/altran03 | linkedin.com/in/tralvin

Education

San Jose State University — San Jose, CA
BS Computer Science | GPA: 4.0 — *Expected Graduation Fall 2027*
Relevant Coursework: Data Structures and Algorithms, Discrete Math, Linear Algebra, Operating Systems, Object-Oriented Programming, Computer Organization, Algorithms

Lowell High School — San Francisco, CA
GPA: 4.35 — *Aug 2020 – Jun 2024*

Experience

SJSU Software and Computer Engineering Society — Jun 2025 – Present
Software Engineer Intern — *San Francisco, CA*

- Enhanced club website in a team of 5 for SJSU's largest engineering club serving 300+ members
- Refactored legacy codebase with React, reduced bundle size by 12%, improving maintainability for 30+ developers
- Eliminated prop drilling across 15+ components using React Context API, improving code reusability and reducing coupling
- Built secure authentication workflows with JWT token management and comprehensive error handling
- Developed password system with MongoDB TTL indexes and OAuth 2.0 integration for scalable user management

Projects

Rapid Relief AI | *FastAPI, Next.js, WebSockets, VAPI* — Humane Tech 2025 Grand Prize Winner

- Led architecture and deployment of a scalable, low-latency real-time call transcription platform using FastAPI backend and Next.js frontend, improving emergency response information flow
- Built a production-grade WebSocket pipeline and VAPI webhook ingestion to enable reliable streaming audio processing, achieving fast transcript delivery and fault-tolerant ingestion
- Designed an interactive analytics dashboard with live transcript visualization, search, and speaker-aware insights to accelerate decision-making for end users

AI Agent Education Platform | *Python, FastAPI, React* — Academy of Management 2025 Best Proposal

- Conceptualized the product and defined the end-to-end pedagogical workflow for an interactive AI simulation platform that replaces traditional business case assignments with immersive, AI-driven learning experiences
- Authored simulation prompts and prototype UI, ensuring scenario realism, measurable learning objectives, and clear assessment rubrics
- Produced technical roadmap, API surface design, and user flows to guide engineering and cross-functional teams; coordinated integration strategy to enable scalable backend/frontend development

Smart Job Application Tracker | *Python, FastAPI, React, TypeScript, Gemini, PostgreSQL*

- Built a full-stack job-tracking platform with FastAPI backend and React/TypeScript frontend that automates parsing of application emails using Google's Gemini LLM with robust regex fallbacks
- Designed RESTful APIs, background workers for email ingestion, and configurable AI analysis controls (token budgets, email recency) to balance accuracy and cost
- Delivered productivity features including real-time status updates, filtering, and analytics to reduce manual tracking overhead and streamline the application pipeline

Budgie | *React, Supabase, Google Cloud Vision, Anthropic* — Berkeley AI Hackathon 2025

- Developed an intelligent budgeting app that automates expense capture using Google Cloud Vision OCR and Anthropic-powered NLU to eliminate manual data entry
- Implemented responsive React dashboards for real-time budgeting, category-level analytics, and actionable recommendations, improving user visibility into spending patterns
- Integrated secure authentication and scalable persistence on Supabase and optimized serverless processing to improve throughput and reliability of receipt ingestion

Technical Skills

Languages: Java, Python, JavaScript, TypeScript, HTML, CSS
Frameworks & APIs: React, Next.js, Node.js, FastAPI, ElevenLabs, VAPI, Anthropic, WebSockets, Gemini
Databases & Auth: Supabase, MongoDB, Auth0, PostgreSQL