Alvin Tran

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EDUCATION

San Jose State University — San Jose, CA
BS Computer Science | GPA: 4.0 — *Expected Graduation Fall 2027*

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*
- Migrated legacy appProp tree to React Context for improved state management and component communication, reducing prop drilling and enhancing application maintainability
- Improved authentication system by implementing comprehensive error handling for login failures, expired tokens, and backend connectivity issues, enhancing user experience with clear error messages and robust token validation
- Implemented reset password functionality with MongoDB and TTL indexes, improving data persistence and scalability while maintaining Google OAuth integration for secure authentication workflows.

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