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

- Architected and deployed a full-stack real-time call transcription platform using FastAPI backend and Next.js frontend
- Engineered interactive dashboard with live transcript visualization and analytics through WebSocket integration, enabling real-time data processing and user engagement
- Implemented VAPI webhook integration for seamless audio stream ingestion, optimizing call processing workflow and reducing latency for immediate transcript delivery

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

- Conceived the workflow and end-to-end user journey for an interactive AI simulation platform that replaces traditional business case assignments with immersive, AI-driven simulations
- Designed and authored the interactive simulation prompt and prototype, focusing on realistic scenarios, assessment criteria, and step-by-step user interactions
- Defined the implementation roadmap and integration strategy for backend and frontend components and produced design documentation and user flows to guide engineering efforts

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

- Built an intelligent budgeting application with automated expense tracking, using Google Cloud Vision API for OCR-based receipt processing and Anthropic for natural language understanding to eliminate manual data entry
- Engineered interactive React dashboards providing real-time budget visualization and category-based spending analytics, delivering intuitive financial insights to users
- Implemented secure user authentication and scalable cloud storage using Supabase, ensuring persistent data management and seamless cross-device synchronization

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

- Built a full-stack job tracking application that automatically parses job application emails using Google's Gemini AI API, extracting company names, job titles, and application status with intelligent fallback to regex parsing
- Implemented a FastAPI backend with PostgreSQL database and SQLAlchemy ORM, featuring RESTful endpoints for job CRUD operations, Gmail integration, and AI-powered email analysis with configurable time-based filtering
- Developed a modern React TypeScript frontend with real-time job management, Gemini AI status monitoring, and advanced settings for controlling AI analysis parameters including token usage limits and email age thresholds

TECHNICAL SKILLS

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