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
- Replaced Redis with MongoDB for password reset email functionality, 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

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

Stock Data Fetcher | *React, JavaScript, Finnhub API*

- Built a stock tracker web app that fetches real-time data using the Finnhub API based on user input
- Implemented auto-refresh with customizable time intervals and pause/continue controls using React Hooks
- Validated inputs and displayed data in a dynamic table, changing with each fetch

ACTIVITIES

Lowell Vietnamese Student Association 2021 – 2024
Secretary *San Francisco, CA*

- Facilitated in-person meeting activities for 20+ students per meeting
- Managed emailing list, writing 20 emails a school year, and managing Google forms

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