An Hoang

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Education

San Jose State University (SJSU) — San Jose, CA
Bachelor of Arts in Computer Science GPA: 3.5 — *Expected Dec 2026*
De Anza College — Cupertino, CA
Computer Science Transfer — *Jan. 2023 – June 2024*

Technical Skills

Languages: Python, JavaScript, TypeScript, Java, C++, HTML/CSS, Pine Script
Frameworks & Libraries: React, Node.js, FastAPI, Electron, Pandas, Plotly, Playwright, Selenium, Pytest, Discord.py
Databases: SQLite, MongoDB, SQLAlchemy
Tools & Platforms: Git/GitHub, VS Code, Cursor, Claude Code, IntelliJ IDEA, Postman, Insomnia, Jira, AWS (EC2), Google Cloud Platform

Projects

Broker Hub Desktop Application — *Nov 2025 – Present*
- Built a cross-platform desktop app (**Electron** + **React**/**TypeScript**) enabling automated buy/sell order execution across **12+** brokers (e.g., Schwab, Robinhood, Fidelity) during regular and extended market hours
- Designed a **FastAPI** backend with **REST APIs** for account groups, trade scheduling, and real-time portfolio syncing (cash, assets, performance) across brokers using **SQLAlchemy** and async **SQLite**
- Integrated **Playwright** browser automation and **IMAP**-based OTP for broker login and **2FA**; implemented real-time UI event streaming and **Discord** notifications

Stock Event Analysis & Alert System — *Oct 2025 – Present*
- Built an automated monitoring system (**Python**) with modular pipelines (SEC EDGAR, RSS, web sources) that detects and analyzes corporate actions using **OpenAI** for structured extraction and decision recommendations
- Implemented reverse split detection with **AI-driven extraction** of ratios, dates, and treatments; built scalable architecture for earnings, mergers, and other events.
- Integrated **MongoDB** storage and **Discord** webhooks for real-time alerts; reduced manual review time through automated classification and confidence scoring

Modular Trading Strategy (Pine Script) — *Jan 2026 – Present*
- Built a modular intraday trend and channel-breakout strategy in **Pine Script** (**TradingView**) with flexible filters and modules (trend, channel, orders, risk, retest) assembled by a **Python** build pipeline
- Achieved up to **78% profitable trades**, **2.2 profit factor**, and maintained **maximum equity drawdown under 15%** over a **one-year** backtest period
- Developed a utility (**Pandas**, **Plotly**) to parse broker order reports and visualize account performance over time.

The Recycling Game — *Oct 2023*
- Won **Best Beginner Hack** at De Anza Hackathon; built an interactive educational game in **Python**/**Pygame** teaching proper waste separation and recycling as part of a 4-person team
- Designed game state and scoring logic using efficient **data structures** for performance
- Conducted code review and refactoring, reducing **codebase size by over 40%** while preserving full functionality

Cart Sharing Browser Extension — *May 2024*
- Built a Chrome extension (**JavaScript**) with **RESTful APIs** to import or export Doordash/Uber Eats cart data
- Enabled users to share the food choice in their cart through invite link parsing and cart merging functionality
- Designed an intuitive UI with **HTML/CSS** for streamlined user interaction
- Built modular codebase enabling future expansion to other delivery and e-commerce platforms

Experience

Computer Technical Support — Sep 2023 – Mar 2024
De Anza College — *Cupertino, CA*
- Diagnosed and repaired hardware issues for **over 50** refurbished laptops, ensuring functionality and performance
- Resolved operating system failures and deployed new **OS installations** to ensure system functionality
- Conducted final testing and quality assurance checks before distributing laptops to students in need