

ALEX YEH

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EDUCATION

University of California, Santa Cruz

Graduated March 2025

B.S. Computer Science, 3.77 GPA, Honors in the Major

09/2021 - 03/2025

Relevant Coursework: Intro to Software Engineering, Software Design Project, Web Applications, Data Structures and Algorithms, Machine Learning Basics, Computer Architecture

PROJECTS & EXPERIENCE

Impact of Generative AI on the Stock Market

HTML, JavaScript, Python, Claude API

Product Lead

Jan. 2025 - Jun. 2025

- Led feature design, development priorities, & integration of AI-driven strategies
- Designed & built a dynamic frontend prototype featuring an interactive, user-friendly trading interface.
- Engineered rule-based trading bots, including trend-following and buy-low-sell-high strategies, to simulate realistic market behavior.
- Prompt-engineered large language models (LLMs) to autonomously generate and execute custom trading strategies via an automated trade execution system.

Trading Card Game Tracker

JavaScript, React, Python, HTML, CSS

Product Lead / Full-Stack Engineer

Sept. 2024 - Dec. 2024

- Designed the card detail page UI to display market prices, card metadata, and profit calculation tools, improving clarity and usability for card valuation.
- Engineered a profit calculation feature to help users estimate card value and determine grading cost efficiency.
- Implemented dynamic functionality for the collection and bulk grading pages.

First-Person Exploration Application

JavaScript, Three.js, WebGL

Independent Developer

Mar. 2025

- Built a 3D park scene with 3D models and textured primary shapes.
- Implemented orbit camera controls for smooth first-person navigation.
- Applied directional, hemisphere, and point lighting for realistic illumination.
- Enhanced rendering with fog, dynamic shadows, glowing firefly sprites, and a textured skybox.

Bird Watching App

JavaScript, Python, HTML, Py4web

Full-Stack Engineer

Dec. 2024

- Developed interactive checklist pages enabling users to create, view, edit, and delete personalized birdwatching logs.
- Integrated a dynamic map that displays species lists based on real-time latitude and longitude input.
- Built a user-friendly form with advanced filters, auto-filled date/time, and species count inputs to streamline data entry.
- Connected frontend and backend systems to ensure persistent checklist data with secure, user-specific access.

TECHNICAL SKILLS

- Programming Languages: Python, JavaScript, HTML, CSS, SQL, C, C++
- Frameworks and Libraries: React.js, Node.js, Bootstrap
- Web Tools: Git, Docker, Firebase, Valkey/Redis, Figma, LaTeX
- Project management: Jira, Agile (Scrum)

WORK EXPERIENCE

Target, San Jose

Jun. 2024 - Jul. 2025

Guest Advocate

- Supported order fulfillment and front-end operations while strengthening communication, time management, and adaptability to new responsibilities in a fast-paced environment

Poke House, Santa Cruz

Feb. 2022 – Oct. 2022

Team Member

- Prepared for opening, assembled food items, provided customer service, and reset after closing