Aryan Vora

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EDUCATION

University of California, Santa Cruz   Santa Cruz, CA
Bachelor of Science in Computer Science, College Scholars Program   *Sep 2022 - June 2025*

EXPERIENCE

Software Engineer Intern   Jan. 2025 – May 2025
UXLY   *Santa Cruz, CA*
- Developed a **multi-agent sales chatbot** with **LangChain** and **LlamaIndex**, using **Retrieval-Augmented Generation (RAG)** to provide accurate, context-aware responses to product inquiries.
- Built a system to query and extract product information from large datasets and catalogs, supporting queries such as **product specifications, pricing, availability, and recommendations. Used the BM25 relevance scoring algorithm to accomplish this.**

Research Assistant   Jun. 2024 – Aug. 2024
Digital Camera and Computer Vision Lab @ National Taiwan University   *Taipei, Taiwan*
- Collaborated on the development of a **real-time hand tracking and gesture recognition system** for AR smart glasses, integrating **Time-of-Flight (ToF)** sensors with **Mediapipe** for precise 3D hand reconstruction and interactive capabilities.
- Optimized the system's ability to simultaneously process ToF depth data and hand landmark tracking, resulting in a **60% FPS improvement** (from 15 to 24 FPS), significantly improving real-time performance.
- Developed a 1,400-line image processing algorithm in **C++** that, when reviewed by a panel of PhDs, **outperformed Sony's algorithm** on **2 out of 3 image sets**.

Software Engineering Intern   Jul. 2023 – Mar. 2024
Squeezee   *Remote*
- Built a cross-platform **receipt-scanning app** using **React** and **Firebase**, integrating **OCRSpace** and an **LLM** to extract and structure data. Used **Firebase Storage, Functions, and Secret Manager**; deployed with **GCP**.
- Developed and deployed a **price-comparison API and Flask site** using **web scraping**; hosted using **Heroku** for real-time e-commerce aggregation.

PROJECTS

StockSentiment | Next.js, FastAPI, yFinance, Reddit API
- Developed a full-stack system to fetch stock data from **yFinance API** and Reddit posts using the **Reddit API** and Applied **VADER sentiment analysis** on Reddit posts to generate sentiment scores for each stock.
- Designed a dashboard to display **stock data, sentiment scores, and relevant posts**. **Visualized sentiment trends** and stock prices with overlaid graphs for intuitive comparison.

BiteRight | Next.js, Deno, Supabase, ClerkJS
- Led a team of 5 using **Agile/Scrum**, managing sprints, assigning tasks, and driving timely project delivery.
- Collaborated with backend developers to define and document consistent **API endpoints** in **Deno** for smooth data flow as well as integration with Supabase.
- Built core pages in **Next.js**, including the **home page, dashboard**, and dynamic **recipe pages**

Improved YouTube Miniplayer | Javascript, HTML, CSS
- Developed a chrome extension to see a floating miniplayer embedded into any website or as a standalone window. **Downloaded by hundreds of users on Chrome Web Store**

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, HTML/CSS, C/C++, Java, UNIX Shell Scripting
Framework and Tools: React, Node.js, Deno, Flutter, Flask, Nextjs, Expo, AWS, GCP, Docker, Postman, Figma