

# Aryan Vora

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## EDUCATION

### University of California, Santa Cruz

*Bachelor of Science in Computer Science, College Scholars Program*

Santa Cruz, CA

*Expected Graduation: June 2025*

## EXPERIENCE

### Software Engineer Intern

*UXLY*

Jan. 2025 – Present

*Santa Cruz, CA*

- Developing a **multi-agent sales chatbot** with **LangChain** and **LlamaIndex**, using **Retrieval-Augmented Generation (RAG)** to provide accurate, context-aware responses to product inquiries.
- Building a system to query and extract product information from large datasets and catalogs, supporting queries such as **product specifications, pricing, availability, and recommendations**.

### Research Assistant

*Digital Camera and Computer Vision Lab @ National Taiwan University*

Jun. 2024 – Aug. 2024

*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 enhancing real-time performance.
- Designed and built **visualization tools** for hand tracking and depth data monitoring, streamlining debugging and leading to further optimizations in system performance.

### Software Engineering Intern

*Squeezee*

Jul. 2023 – Mar. 2024

*Remote*

- Developed a cross-platform **receipt-scanning application** using **React** for the frontend and **Firebase** for the backend, ensuring seamless functionality across devices.
- Integrated **OCRSpace** for text extraction from scanned receipts and parsed and validated OCR results using a **Large Language Model (LLM)**, converting unstructured text into structured, accurate data for storage and future analysis.
- Created a robust **price-comparison API** using **web scraping** techniques for real-time data aggregation from multiple e-commerce platforms, and deployed a **Flask-based** website to showcase the API's capabilities.

## PROJECTS

### BiteRight | Next.js, Deno, Supabase, ClerkJS (biteright.co)

- Led a team using **Agile** and **Scrum**, distributing tasks and ensuring smooth project execution.
- Designed the **UI/UX** in Figma and V0, creating a modern, user-friendly interface.
- Built the **frontend** with Next.js, optimizing the web app for both desktop and mobile.
- Developed key pages, including the **home page, dashboard, and custom recipe pages** for each recipe in the database.

### Emulator | C++

- Collaborated with a team of five to develop the **Banana Emulator**, designed to run games using **.slug** file formats, with a modular architecture including **Console, Memory, CPU, and GPU components**.
- Implemented a custom **.slug file parser**, a **GUI launcher**, video recording, input recording/playback, and a debugger with breakpoints and stepping. Utilized **SDL** for graphics rendering and input handling.

## TECHNICAL SKILLS

**Languages:** Python, JavaScript, HTML/CSS, C/C++, Java, UNIX Shell Scripting

**Frameworks:** React, Node.js, Deno, Flutter, Flask, Nextjs, Expo

**Developer Tools:** Git, Bash, AWS, GCP, Docker, Postman, Figma, Microsoft 365, Google Workspace (Docs, Sheets, Slides)