

# Aryan Vora

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## EDUCATION

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### University of California, Santa Cruz

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

Santa Cruz, CA

*Expected Graduation: June 2025*

## EXPERIENCE

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### Research Assistant

Jun. 2024 – Aug. 2024

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

*Taipei, Taiwan*

- Contributed to the development of a real-time hand tracking and gesture recognition system for AR smart glasses, integrating Time-of-Flight sensors with Mediapipe for precise 3D hand reconstruction and interaction.
- Optimized the logic to simultaneously handle TOF depth calculations and hand landmark tracking, resulting in a 60% increase in FPS (15 to 24 FPS), significantly enhancing responsiveness and performance.
- Created visualization tools for hand tracking and depth data, allowing real-time monitoring and debugging of the system, which facilitated further optimizations and refinements.

### Software Engineering Intern

Jul. 2023 – Mar. 2024

*Squeezee Group Shopping*

*Remote*

- Developed a cross-platform receipt scanning application with React for the frontend and Firebase for the backend, enabling seamless user experience across multiple devices.
- Integrated OCRSpace for accurate text and data extraction from scanned receipts, utilizing AI-driven techniques to enhance OCR accuracy and reliability.
- Designed and implemented a robust price-comparison API using web scraping techniques, enabling real-time data retrieval from multiple e-commerce platforms, and deployed a website using Flask to showcase the API's capabilities.

## PROJECTS

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### Emulator | C++

- Worked in a team of five to develop an emulator with a modular architecture consisting of Console, Memory, CPU, and GPU components, utilizing SDL for graphics rendering and input handling.
- Implemented a GUI launcher, video recording, input recording/playback, and a debugger with breakpoints and stepping.

### HTTP Server | C

- Developed a multithreaded HTTP server from scratch in C, utilizing asynchronous I/O to handle concurrent connections with minimal latency.
- Developed robust input validation mechanisms to handle all input possibilities, including malicious data, ensuring stability and preventing server crashes.

### Pokernow Assistant | JavaScript, HTML/CSS

- Developed a Chrome extension, available on the Chrome Web Store with many active users, that performs real-time data scraping from PokerNow sessions to calculate win rates and deliver statistical insights directly within the game interface.
- Implemented a user-friendly interface that integrates seamlessly with PokerNow, allowing users to access in-depth analytics and make informed decisions during gameplay.

## TECHNICAL SKILLS AND AWARDS

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

**Frameworks:** React, Node.js, Flutter, Flask, Nextjs, RestAPI

**Developer Tools:** Git, Bash, AWS, Firebase/Google Cloud, Postman, Figma, Mobile and Web Development, Image Detection, OpenCV, Pandas