

# Aryan Vora

510-944-2564 | [voraaryan1@gmail.com](mailto:voraaryan1@gmail.com) | [Portfolio](#) | [GitHub](#) | [linkedin.com/in/aryanvora1](https://linkedin.com/in/aryanvora1)

## 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

*Computer Vision Lab @ NTU*

*Taipei, Taiwan*

- Engineered 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

Aug. 2023 – Nov. 2023

*Squeeze 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.

### National Officer

August 2021 – December 2021

*Shooting Stars Foundation*

*Fremont, CA*

- Organizer of the AMD-Xilinx All-Girls Hackathon, successfully attracting participants from over 50 countries and achieving 600+ entries
- Designed and delivered a highly interactive workshop on HTML/CSS with over 100 participants, enhancing their web development skills.

## PROJECTS

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### 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.
- Engineered advanced algorithms that analyze multiple gameplay scenarios, providing strategic recommendations to optimize decision-making and enhance overall player performance.
- Implemented a user-friendly interface that integrates seamlessly with PokerNow, allowing users to access in-depth analytics and make informed decisions during live gameplay.

### Aletheia | Python, Node.js, JavaScript (React), HTML/CSS

- Designed and developed an AI-powered application that simplifies complex pharmaceutical prescriptions into patient-friendly language, enhancing patient understanding and improving overall healthcare outcomes.
- Integrated PDF and image upload capabilities for medical documents, enabling sophisticated analysis to assess personalized drug impact, which contributed to winning Best UI/UX at ACMxGraceHacks 2023.

## 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