

# Shranjeet Singh

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## EDUCATION

### University of California, Riverside

Riverside, CA

*Bachelor of Science in Computer Science*

*Exp. Dec. 2024*

Relevant Coursework: Software Engineering, Intermediate Data Structures & Algorithms, Operating Systems, Theory of Automata, Compiler Design, Artificial Intelligence, Web Development, Data Science

## EXPERIENCE

### Undergraduate Researcher

January 2024 - Present

*University of California, Riverside*

*Riverside, CA*

- Collaborated with a team to engineer a **full-stack** website consolidating air quality data from multiple vendors, enhancing research for a team of **10+** professionals at UCR, resulting in improved data accessibility and analysis.
- Constructed a live map with Leaflet, displaying 14 sensor locations, statuses, and AQI, leveraging the Quant-AQ API for private data integration, leading to a **30%** increase in site functionality and user experience
- Developed specialized data pages for individual sensors using **Next.js**, featuring detailed data tables and visualizations with **AirBNB's VisX**, resulting in a **65% boost** in productivity for the research team through streamlined data analysis and presentation

### Software Engineer Committee

July 2023 - Present

*Association for Computing Machinery (ACM)*

*Riverside, CA*

- Collaborated with a cross functional team of 40+ members to develop full-stack websites for **various Hackathons** at UCR utilizing HTML, CSS, JavaScript, React, and Next.js
- Resolved and implemented **20+** front-end features on the CutieHack and DesignVerse website by employing strong problem-solving skills and conducting testing thus delivering a polished product that **300+** students used.
- Implemented **10+ component tests** using Cypress, ensuring code functionality and robustness.

### Software Engineer Intern

September 2023 - December 2023

*Trapstudio*

*Riverside, CA*

- Developed a cross-platform app from scratch using Javascript and leveraged a Large Language Model, resulting in a personalized experience non-tech-savvy users
- Collaborated in a 4-member backend team, utilizing Next.js to expose a REST API and a database with Supabase
- Designed and implemented **3 critical endpoints** in the REST API, enhancing the app's functionality and performance by **30%**.

## SELECTED PROJECTS

### Child Language Monitoring App | *Python, SQLite3*

November 2023

- Secured 2nd place in the Smart Living Track at CutieHack with **300+** students by creating a Python and SQLite3-based Child Speech Monitoring App, empowering parents to track their children's profanity usage
- Designed a **dynamic alert system** issuing tiered emails to parents based on their child's profanity use, incorporating penalties like revealing the child's search history for effective monitoring
- Utilized diverse APIs for audio recording, speech-to-text conversion, and real-time profanity detection, enabling precise analysis of speech content to identify and tally instances of profanity

### E-Commerce Website | *HTML, TailwindCSS, JavaScript, React, Next.js, MongoDB, Stripe*

July 2023

- Developed a full stack E-Commerce web application utilizing Next.js and React, ensuring resulting in an intuitive user experience and responsive design.
- Implemented a robust backend using MongoDB, ensuring efficient data storage and retrieval for product catalog resulting in a **20%** improvement in overall application performance and faster load times.
- Integrated Stripe payment gateway to facilitate secure and convenient online transactions, enhancing the app's e-commerce capabilities.

## TECHNICAL SKILLS

**Languages:** JavaScript, React, Python, C++, HTML, CSS

**Developer Tools:** Git, Github, Cypress, Vercel

**Technologies:** Next.js, Next Auth, TailwindCSS, MongoDB, Firebase, Supabase

**Management:** Jira, Agile, Scrum Methodologies, GitHub Projects