

Shranjeet Singh

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EDUCATION

University of California, Riverside

Riverside, CA

Bachelor of Science in **Computer Science**

Mar. 2025

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

EXPERIENCE

Undergraduate Researcher - Machine Learning

June 2024 - Aug 2024

University of California, Riverside

Riverside, CA

- Collaborated with a research team to **fine-tune** Wav2Vec models, **enhancing** speech recognition accuracy for diverse English accents in the EdgeAvatar project.
- Evaluated speech-to-text models, leading to improvements in EdgeAvatar's **AI** accuracy and performance.
- Integrated new datasets in the **training** process, expanding the range of accents it can transcribe.

Software Developer Intern

January 2024 - June 2024

University of California, Riverside ([Website Link](#))

Riverside, CA

- Engineered a **full-stack** website consolidating air quality data, **improving** accessibility and analysis for **10+** professional researchers.
- Implemented a live map using **ArcGIS** and **QuantAQ API**, displaying 14 sensor locations and AQI, increasing site functionality by **30%**.
- Developed dynamic data visualization pages utilizing **Next.js**, **React.js**, and **VisX**, increasing research productivity by **65%**.

Software Engineer Committee

July 2023 - May 2024

Association for Computing Machinery (ACM)

Riverside, CA

- Developed **full-stack** applications for UCR Hackathons using **TailwindCSS**, **React.js**, and **Next.js**, integrating **CI/CD** pipelines in collaboration with a team of **20**.
- Implemented and resolved **100+** front-end features, delivering polished products for **600+** students.
- Tested on **25%** of all components using Cypress, ensuring **quality assurance**.

Software Engineer Intern

September 2023 - December 2023

Trapnstudio

Riverside, CA

- Programmed 3 critical **endpoints** using **RESTful API** principles to improve application performance by **30%**.
- Created a robust **database** utilizing Supabase to store and retrieve user information, queries, responses, and information.
- Contributed to **Scrum meetings**, ensuring clear communication on project priorities and deadlines.

SELECTED PROJECTS

Stock Market News Search Engine | *Python, PyLucene, React*

June 2024

- Engineered a multi-threaded web crawler using **Python** and **PyLucene**, accelerating data retrieval and ensuring up-to-date **indexing** of Yahoo Stock Market news.
- Optimized the backend for handling complex search queries with advanced **indexing techniques**, boosting search **accuracy** and reducing response times by **40%**.

TECHNICAL SKILLS

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

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

Technologies/ Frameworks: React, Next.js, Next Auth, TailwindCSS, MongoDB, Firebase, Supabase, Express.js, Node.js

Management: Jira, Agile, Scrum Methodologies, GitHub Projects