Sana Sreeraj

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About Me

As a 2nd year student with a good knowledge of coding and a deep interest in the endless possibilities of technology. I have a good command in UI-UX Design, Full-stack Web Development, and I've been able to create innovative and create Web Designs and developed them. My fascination with Coding and designing has fueled my geek spirit. Moreover, my interest in research in Computer Vision drives my academic pursuits. Eager to contribute my skills to real projects, I am committed to expanding my horizons in both technical and research fields.

Education

SRM Institute of Science & Technology
Bachelor of Technology in Computer Science Core

CGPA : 9.5
Expected: 2026

ODM Public School
High School (Class 11th & 12th)

CGPA : 7.8
2020 - 2022

Technical Skills

Languages: Python, C/C++, Java, SQL, HTML/CSS, Javascript
Frameworks: MongoDB, Node JS, Next.js
Libraries: pandas, NumPy, Matplotlib, OS, Open-CV
Developer Tools: Git, Google Cloud Platform, MongoDB Compass
Designing Tools: Figma, Canva, Adobe Illustrator

Experience

Web Development Intern
Bharat Intern

Aug-Oct 2023
Remote

- Developed a website that features a user-friendly simple calculator interface developed with HTML, CSS, and JavaScript for basic arithmetic calculations.
- Remote Internship starting August 2023 to October 2023.
- Learnt new languages and understood how to make creative websites using the techstacks.

Web Development Intern
Lets Grow More

Jul-Aug 2023
Remote

- Designed and developed a portfolio website showcasing skills and projects using HTML, CSS, and JavaScript.
- Remote Internship starting July 2023 to August 2023.
- Learnt new languages and understood how to make creative websites using the techstacks.

Research Interests

Real-time Communication Aid for the Deaf and Dumb

- Develop an application or website utilizing computer vision technology to recognize and interpret sign language gestures captured in real-time through the device's camera.
- Implement a feature that converts the interpreted sign language into speech and text, facilitating communication for the hearing impaired.
- Incorporate a reverse functionality where the application translates spoken words into sign language gestures in real-time, enabling individuals with speech impairments to communicate effectively.

Projects

Air-Drums

- Developed a real-time communication aid application utilizing computer vision techniques to assist individuals with hearing and speech impairments.
- Integrated OpenCV for image processing and HSV color space conversion to detect sign language gestures captured by the device's camera.
- Implemented bidirectional functionality: interpreting sign language gestures to generate corresponding sounds and converting spoken words into sign language gestures in real-time, enhancing communication accessibility.

Humankind

- Developed a dynamic website with Next.js and Tailwind CSS, enabling step tracking and incentivizing physical activity.
- Integrated Google Maps API for accurate step counting and route monitoring, enhancing user engagement and experience.
- Implemented a point-based reward system, enabling users to redeem earned points for gifts, coupons, and other items, fostering motivation and participation. Additionally, employed Next.js for optimized performance and Tailwind CSS for responsive design, ensuring a smooth and visually appealing user interface across various devices, while prioritizing security measures and conducting comprehensive testing to ensure reliability and data privacy compliance.

Certifications

AWS Academy Graduate - AWS Academy Machine Learning
Amazon Web Services

- Link to Certification
- Completed AWS Academy's Machine Learning Foundations, skilled in Supervised and Unsupervised Machine Learning, Classification & Regression.

Unity Essentials Pathway
Unity

- Link to Certification
- Completed AWS Academy's Machine Learning Foundations, skilled in Supervised and Unsupervised Machine Learning, Classification & Regression.

Programming in Java
NPTEL

- Link to Certification
- Successfully completed the rigorous certification for "Programming in Java," a comprehensive program offered by NPTEL.

Computer Architecture
NPTEL

- Link to Certification
- Acquired in-depth knowledge and practical skills in designing of a simple processor, concepts of pipelining, and the designing of a modern memory system Leadership Positions.

Leadership Positions

Qwiklabs Developer Club SRMIST: President & Operational Head (Present)
Gen-Y Events: Logistics & Sponsorship Head (Present)
Team 1.618: Web Design & Development Head
Flyshaft: Operational Head (Present)