

Sourabh Singh Rathore (He/His)

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SUMMARY

A highly motivated full stack developer with proficiency in machine learning, data structures and algorithms, and object-oriented programming to strengthen coding skills. Experienced in both low-level and high-level programming languages, including Python, Java, C, C++, JavaScript, and Rust. Skilled in team management, project coordination, and strategic decision-making. A fast learner who quickly adapts to new technologies by immersing in dynamic environments. Passionate about building scalable and innovative solutions, continuously expanding technical expertise through hands-on experience and collaboration.

EDUCATION

Indian Institute of Information Technology Vadodara,

Bachelor of Technology in Information Technology

Ahemdabad, Gujarat

September 2023 - january 2027

WORK EXPERIENCE

Gym Club

Junior Secretary

June 2024 - Present

IIITV

- Organized fitness programs, managed club activities, and facilitated member engagement, increasing participation by 50%.

PROJECTS

Rag-nar | Python | RAG

- Built a RAG-based PDF query system using React, FastAPI, Qdrant, and Gemini for real-time contextual answers.
- Engineered a real-time pipeline in Python and FastAPI with 0.5s response time for semantic search.
- Improved LLM accuracy by 40% using dynamic retrieval over static GPT-based models.
- Implemented session-based auto-reset to clear PDF data and maintain clean vector storage.

Chatkara | Socket.io

- Developed a full-stack chat app enabling real-time 1-on-1 and group messaging with a responsive UI.
- Implemented WebSocket-based communication using Socket.io, supporting 100+ concurrent users seamlessly.
- Designed secure JWT authentication, reducing unauthorized access risks by 95%.
- Integrated Cloudinary for image uploads, optimizing media by 40% in size and boosting performance by 25%.

QuickNews | React | Bootstrap 5

- Designed a real-time news web app using JavaScript, CSS, and HTML with a single-page architecture.
- Accelerated page load speed by 40% for 10,000+ views through client-side rendering.
- Enhanced navigation by 25% with categorized content and data caching for five sections.

ACHIEVEMENT

HackIIITV 2024 first year special

February 2024

IIIT Vadodara Intra-college hackathon

- Won the First-Year Special Award at IIIT Vadodara Intra-College Hackathon for creating an innovative AI-based solution **Groot**.

SKILLS

PROGRAMMING LANGUAGES : Java, Python, SQL

TECHNICAL : Node.js, Express.js, React.js, Rest Api, Tailwind, figma, diasylUI , socket.io , FastAPI , Cloudinary

DATABASES : MongoDB , MySQL , Qdarnt (Vector DB)

DEVELOPER TOOLS : Git/GitHub , Postman

SOFT SKILLS : Team Management, Communication, Leadership, Collaboration, Strategic Planning, Decision Making