

Sourabh Singh Rathore (He/His)

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SUMMARY

Full-stack developer with strong grasp on data structures, object-oriented design, and machine learning. Proficient in Java, Python, C++, and JavaScript. Skilled in building scalable web apps using MERN and FastAPI stacks. Experienced in team leadership, project execution, and quick adoption of new tech. Passionate about solving real-world problems using clean, optimized code and modern frameworks.

EDUCATION

Indian Institute of Information Technology, Vadodara

B.Tech in Information Technology

Gandhinagar, Gujarat

September 2023 – January 2027

WORK EXPERIENCE

Gym Club, IIIT Vadodara

June 2024 – Present

Junior Secretary

- Organized and managed club activities, increasing student participation by 50%.
- Coordinated weekly fitness programs, handled logistics, and led promotional strategies.

PROJECTS

Rag-nar

- Built a real-time PDF Q&A system using React, FastAPI, Gemini, and Qdrant for semantic retrieval.
- Achieved 0.5s latency using Python pipelines and optimized vector indexing.
- Improved LLM accuracy by 40% through context-aware chunk retrieval.
- Stack:** Python, FastAPI, React.js, Gemini API, Qdrant

Chatkara

- Developed a scalable real-time chat app supporting 1-on-1 and group conversations.
- Integrated Socket.io for 100+ concurrent users with JWT-based secure auth.
- Boosted performance by 25% using Cloudinary for optimized media handling.
- Stack:** Node.js, Express, React.js, Socket.io, JWT, Cloudinary

QuickNews

- Designed a real-time news portal using React and Bootstrap with SPA architecture.
- Reduced page load by 40% via client-side rendering and smart caching.
- Stack:** React.js, Bootstrap 5, JavaScript, News API

ACHIEVEMENTS

HackIIITV 2024 – First Year Special Winner

February 2024

IIIT Vadodara Intra-college Hackathon

- Won for developing [Groot](#), an AI-driven solution targeting student productivity.

SKILLS

Languages: Java, Python, C++, SQL, JavaScript

Frameworks / Tools: Node.js, Express.js, React.js, FastAPI, REST APIs, Tailwind, Bootstrap, Figma, DaisyUI

Databases: MongoDB, MySQL, Qdrant (Vector DB)

Concepts: Object-Oriented Programming (OOP), DBMS, Data Structures, Algorithms

DevOps / Infra: Git, GitHub, Postman, CI/CD basics

Soft Skills: Leadership, Communication, Teamwork, Planning, Decision-Making