Saurabh Tripathi

Lucknow, India — +91 95699 32897 — saurabh7sde@gmail.com
LinkedIn — LeetCode — GitHub

Professional Summary

Computer Science undergraduate with strong foundations in Data Structures, Algorithms, and backend systems. Experienced in building scalable, stateless backend services, RESTful APIs, secure authentication mechanisms, and integrating third-party systems. Focused on designing reliable, maintainable, and performance-oriented software.

Education

B.Tech in Computer Science, KIET Group of Institutions, Ghaziabad, India **2023 − 2027**
CGPA: 8.2

Senior Secondary Education (Class XII), SVM, Uttar Pradesh, India **2022**
Percentage: 93.4% (CBSE)

Secondary Education (Class X), Ryan International School, Jaipur, Rajasthan, India **2020**
Percentage: 93.2% (CBSE)

Experience

DSA Mentor & Coordinator Oct 2024 – Present
Technocrats KIET, Ghaziabad, India

- Designed and delivered structured training on Data Structures, Algorithms, and C++ to 100+ students.
- Led problem-solving sessions covering Dynamic Programming, Trees, Graphs, and Recursion.
- Mentored students on competitive programming platforms, improving algorithmic thinking and code efficiency.

Competitive Programming Sep 2024 – Present

- Achieved a maximum LeetCode rating of 1942, ranking in the top 3.4% globally.
- Solved 900+ algorithmic problems across various Data Structures.

Projects

MediQueue – Smart Appointment & Queue Management System *Dec 2025*
Live (Patient) — Live (Admin) — GitHub

Node.js, Express.js, MongoDB, RESTful APIs, JWT, RBAC, Razorpay, Cloudinary

- Built a scalable, stateless **RESTful APIs** backend using Node.js, Express, and **MongoDB** to support appointment scheduling and real-time queue workflows for multiple users.
- Implemented **JWT**-based authentication with access and refresh tokens, enforcing **RBAC** and secure session renewal for protected backend APIs.
- Integrated the **Razorpay** payment gateway with server-side order creation and verification to ensure secure and reliable payment processing.

AI-Powered Chatbot Platform

React.js, Node.js, MongoDB, REST APIs

- Built a scalable chatbot platform with JWT-secured authentication and modular backend services.
- Designed extensible prompt-processing pipelines and optimized backend APIs for improved response quality and performance.

Technical Skills

Programming Languages: C, C++, JavaScript (ES6+), Python
Computer Science Fundamentals: Data Structures, Algorithms, Object-Oriented Programming (OOP), DBMS, Time & Space Complexity
Backend & Systems: Node.js, Express.js, RESTful APIs, Stateless Architecture, JWT, RBAC
Databases: MongoDB, PostgreSQL, SQL, Mongoose
Web Technologies: React.js, HTML5, CSS3, Tailwind CSS
Tools & Platforms: Git, GitHub, Postman, Axios, Cloudinary, VS Code, AWS

Achievements

- Top 3.4% globally on LeetCode with a best contest rank of 861.

Certifications

AWS Certified Cloud Practitioner (CLF-C02) Certificate-Link