

Sahil Kumar

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🌐 portfolio

Education

Indian Institute of Information Technology, Una

B.Tech in Electronics and Communication Engineering

2023 – Present

CGPA: 7.04

Technical Skills

Programming Languages: C, C++, Python, JavaScript, TypeScript, SQL

Web Technologies: HTML, CSS, React.js, Node.js, Express.js, REST APIs, API Design, TailwindCSS, Bootstrap

Databases: MongoDB, Firebase, PostgreSQL

Developer Tools: Git, GitHub, Docker, Postman, AWS (Basics), VPS Hosting

Core CS: Software Engineering Fundamentals, Data Structures & Algorithms, Object-Oriented Programming, DBMS

Projects

LifeFlow – Real-Time Blood Donation Platform | MERN, TailwindCSS, Twilio API, MongoDB Geospatial, JWT
GitHub | Live Demo Jan'25 – Apr'25

- Designed and built a role-based full-stack system to connect patients with nearby eligible blood donors during medical emergencies.
- Implemented MongoDB geospatial indexing and queries to efficiently match donors within a 20 km radius in real time.
- Integrated Twilio SMS services to automatically notify donors, reducing manual coordination and response latency.
- Developed secure REST APIs using JWT authentication, authorization middleware, and centralized error handling.
- Built monitoring dashboards to track blood requests, donor activity, and system usage metrics.

FarmFresh – AgriCommerce Platform | MERN, Cloudinary, Gemini API, Redux, Recharts
GitHub | Live Demo Nov'25

- Developed a full-stack agri-commerce platform enabling farmers to sell crops directly to consumers via role-based workflows.
- Implemented buyer-seller authentication flows with protected routes and dynamic dashboards.
- Integrated Gemini AI (CropSense) to provide crop recommendations and assist users with domain-specific queries.
- Visualized sales and order trends using Recharts to improve seller decision-making.

Achievements

- Rated 3-star on CodeChef.
- Solved 300+ Data Structures and Algorithms problems across platforms.
- Achieved Global Rank 2200 in LeetCode Weekly Contest 372.

Positions of Responsibility

Event Coordinator

EPMOC Club, IIIT Una

Oct 2025 – Present

- Coordinated technical and cultural events involving 100+ participants.
- Collaborated with team members to manage planning, logistics, and execution.