

# Sahil Kumar

Indian Institute of Information Technology, Una

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🐙 github.com/Sahil-kumar2    📁 portfolio

## Education

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**Indian Institute of Information Technology, Una**  
*B.Tech in Electronics and Communication Engineering*

2023 – Present  
CGPA: 7.04

## Technical Skills

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**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

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**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

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- 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

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**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.