

Sahil Raza Ansari

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Full-Stack Developer with strong command over MERN stack and Flutter, passionate about building scalable and efficient web/mobile systems. Built production-level tools like a certificate automation platform and a real-time eCommerce app using Mongo Db, REST APIs, and JWT. Solved over 650 data structure and algorithm problems, demonstrating solid algorithmic thinking and backend logic design.

Education

Indian Institute Of Information Technology Design and Manufacturing Kancheepuram
B.Tech, **Electronics and Communication Engineering**
Major CGPA: 9.11 / 10

Chennai, India
Nov, 2022 - July, 2026

Technical Skills

Language: JavaScript (ES6+), Python, Dart, SQL, C/C++

Frontend: React.js, HTML5, CSS3, Redux, Flutter, Styled-Components, Tailwind CSS

Backend: Node.js, Express, JsonWebToken(JWT), REST APIs, Sequelize ORM

Databases: MongoDB, Firebase (Realtime DB, Firestore), MySQL, PostgreSQL

Tools & Platforms: Git/GitHub, Version Control, Postman, Render, Cloud Services, LLMs

CS Fundamentals: Data Structures and Algorithms, Object-Oriented Programming (OOP), Computer Networks, Operating Systems

Work Experience

Full-Stack Developer Intern - Hostel Office, IIITDM Kancheepuram

June, 2025 - Present

- Architected a scalable admin dashboard for over 3,000 students using React + Vite, connected to a Node.js backend with PostgreSQL (via Sequelize ORM).
- Implemented secure role-based authentication and authorization across multiple roles, including Super Admin, reducing security vulnerabilities by 95%.
- Constructed and integrated over 25+ relational database tables (scaling toward 40+) covering students, rooms, buildings, staff, and fee records.
- Improved complex SQL queries and relational data workflows, boosting data retrieval efficiency by over 30%.

Software Engineer Intern - Certimate Infotech Pvt. Ltd. (Hybrid)

April, 2025 - July, 2025

- Led the development of a scalable certificate automation tool, reducing wait times by over 98% and enabling real-time generation of 1000+ PDFs with fast load times.
- Built a high-throughput bulk email sender tool capable of dispatching thousands of personalized emails efficiently for event-scale communication.
- Developed and implemented a Client Management System to manage client data, domain/hosting status, and service tracking for 50+ clients using React + Node.js + MySQL.
- Gained hands-on experience in SEO optimization, VPS/Hostinger/Oracle cloud hosting, and server-side configuration, achieving 99.9% uptime for deployed projects.
- Contributed to the full-stack development of 10+ new features, including backend APIs and frontend dashboards.

Software Projects

Student Progress Management System - MERN Stack, MongoDB, Node-Cron [CP Management](#)

June, 2025

- Developed a full-stack MERN system featuring 6+ dynamic graphs to provide in-depth performance analytics on Codeforces student progress, including contest history and problem-solving metrics.
- Engineered a "LeetCode-style" daily submission heatmap, visually representing user activity on Codeforces and helping administrators identify inactive periods at a glance.
- Implemented a Node.js cron job to automate daily data syncs with the Codeforces API, ensuring data freshness and integrity for a large user base.
- Created a proactive detection system that automatically emails inactive Codeforces students after 7 days, estimated engagement boosting and user retention of 15%.

CodeTrace - React.js, Node.js, LLaMA 3.2, AI Prompt Engineering [CodeTrace Link](#)

March, 2025

- Developed an AI-powered visual debugger to analyze and explain code execution, reducing debugging time for users by an estimated 40%.
- Engineered a prompt modularization system using LLaMA 3.2, achieving over 90% accuracy in bug tracing and generating line-by-line logic explanations.
- Curated and implemented a set of 10+ interactive coding challenges to help users visually debug and improve their problem-solving skills.

Achievements

1st Place - Vashisht Hackathon 2.0 (2025), AI Track

- Won the top prize among 100+ teams for creating an AI-powered visual debugging assistant (CodeTrace).

Outstanding Volunteer Award - WAMS 2025 IEEE Conference

- Acknowledged for independently developing and maintaining the conference website, contributing to the successful coordination of 20+ event sessions and 500+ attendees.

Data Structures and Algorithms Practice

- Successfully solved over 650 data structure and algorithm problems across LeetCode, GFG, and Codeforces (65% medium/hard), covering arrays, trees, graphs, and dynamic programming.