Sahil Raza Ansari

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A **proactive and self-driven Full-Stack Developer** with a proven ability to **architect and deploy scalable, production-level web applications** from concept to completion. I excel at **solving complex technical challenges and thrive on taking ownership of projects.** My experience in **designing robust backend systems and optimizing performance** demonstrates a hands-on, end-to-end approach to development.

Education

Indian Institute Of Information Technology Design and Manufacturing Kancheepuram   Chennai, India
B.Tech, **Electronics and Communication Engineering**   Nov, 2022 - July, 2026
Major CGPA: 9.11 / 10

Technical Skills

Language: C/C++, JavaScript (ES6+), Python, Dart, SQL
Frontend: React.js, HTML5, CSS3, Redux, Flutter, Styled-Components, Tailwind CSS
Backend: Node.js, Express, JSON Web Token (JWT), REST APIs, Sequelize ORM
Databases: MongoDB, Firebase (Realtime DB, Firestore), MySQL, PostGresSQL
Tools & Platforms: MATLAB, Git/GitHub, Version Control, Postman, Render, Cloud Services, Large Language Models (LLMs)
CS Subjects: Data Structures and Algorithms, Object-Oriented Programming (OOP), Computer Networks, Operating Systems, Data Science

Work Experience

Full-Stack Developer Intern - *Hostel Office, IIITDM Kancheepuram*   **June, 2025 - Present**

- Engineered a scalable admin dashboard, **demonstrating full project ownership** by designing and deploying a secure end-to-end solution **serving 3,000+ students.**
- Implemented robust, role-based authentication across 10+ roles, **directly contributing to data security** and **reducing potential vulnerabilities by 95%.**
- Constructed and **integrated over 30+ relational database tables (scaling toward 40+)** covering student, mess, and hostel data.
- **Identified and solved key performance bottlenecks** by optimizing complex SQL queries, 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** for full stack application, and server-side c**onfiguration, achieving 99.9% uptime** for deployed projects.

Software Projects

Student Progress Management System - *React.js, Node.js, 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**

- **Initiated and built** an AI-powered visual debugger to simplify code execution analysis, **addressing a significant development challenge** and **reducing debugging time for users by an estimated 40%.**
- Engineered a **prompt modularization system using LLMs like 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
- Led a team to win the top prize among 100+ teams for **building an innovative, AI-powered visual debugging assistant (CodeTrace)**, showcasing a proactive approach to solving a real-world problem

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 **driving a 15–20% increase in attendees** beyond expectations **(500+ total).**

Competitive Programming
- Demonstrated **strong problem-solving skills** by solving over **650+ data structures and algorithm problems** (65% medium/hard), including a **33-day consecutive streak** on LeetCode, which reflects a commitment to continuous improvement