Sahil Raza Ansari

connectwithsahil007@gmail.com | +91 7992298128 | Portfolio | GitHub | LinkedIn

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, PostGresSQL
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**
- Selected as the sole intern for a full-fledged Hostel Management System built under the guidance of a Dr. Amalan.
- Architecting a scalable admin dashboard using React + Vite, connected to a Node.js backend with PostgreSQL (via Sequelize ORM).
- Implementing secure role-based authentication and authorization across multiple roles, including Super Admin.
- Designed and integrated over 10+ relational database tables (scaling toward 30–40) covering students, rooms, buildings, staff, and fee records.
- Collaborating on complex SQL queries and relational data workflows, learning from real-world DB modeling and optimizations.

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.
- Designed and implemented a Client Management System to manage client data, domain/hosting status, and service tracking using React + Node.js + MySQL.
- Gained hands-on experience in SEO optimization, VPS/Hostinger/oracle cloud hosting, and server-side configuration for deployment and uptime.
- Contributed to full-stack development cycles: backend APIs, frontend dashboards, database modeling, and production deployment.

Software Projects

CodeTrace - React.js, Node.js, LLaMA 3.2, AI Prompt Engineering   CodeTrace Link   **March, 2025**
- Built an AI-powered tool to visualize code execution, variable states, and generate line-by-line logic explanations.
- Used LLaMA 3.2 with prompt modularization (bolt.new-style) to produce accurate bug tracing and debugging insights.
- Created 10+ interactive challenges and test cases to help users debug and improve problem-solving logic visually.
- Designed modular prompt refinement inspired by bolt.new's architecture, achieving 90%+ accuracy and consistent model outputs.

Plantify - Flutter, Firebase, Dart   Plantify Link   **Dec, 2024 - Jan 2025**
- Developed a fully-functional mobile eCommerce app for buying plants with user authentication, cart, and order tracking features.
- Integrated Firebase Realtime DB and Auth for CRUD operations, ensuring 99.9% uptime and real-time sync under stress testing (200+ users).
- Designed Material UI-compliant UI with favorites, recent items, and filtering, achieving 90% positive usability feedback.

Achievements

1st Place - Vashisht Hackathon 2.0 (2025), AI Track
- Built an AI-powered visual debugging assistant (CodeTrace), winning the top prize among 100+ teams.

Outstanding Volunteer Award - WAMS 2025 IEEE Conference
- Recognized for independently developing and maintaining the conference website throughout the event cycle.

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.