

Rohan Mahato

Aspiring software engineer skilled in Java, DSA, and full-stack development. Experienced in building scalable microservices, REST APIs, and authentication systems that solve real-world problems. Strong CS fundamentals, problem-solving, and Agile teamwork skills, leveraging AI and prompt engineering to enhance productivity and innovation.

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WORK EXPERIENCE

Smart India Hackathon (Academic)

Team Lead

Aug 2025 - Oct 2025

Smart Crop Advisory System for Small & Marginal Farmers

- Led the **end-to-end development** of a platform offering **crop recommendations, weather alerts, mandi price insights, and pest detection integration**.
- Built **frontend (mobile-first, responsive UI)** and **backend APIs** to connect ML models (soil card analysis & pest detection) with the farmer-facing app.
- Designed scalable **microservice-based architecture** ensuring smooth integration of advisory, alerts, and detection modules.
- Collaborated with a 6-member team in an **Agile setup**, managing sprints, assigning tasks, and ensuring timely delivery of MVP.

SKILLS

Languages: Java, C, JavaScript, SQL

Frontend: HTML5, CSS3, React.js, Tailwind CSS, Vite, Radix UI

Backend: Node.js, Express.js, REST APIs, JWT Auth

Databases: MySQL, MongoDB

Tools & DevOps: Git/GitHub, IntelliJ IDEA, Maven, Jenkins, Selenium, CI/CD (GitHub Actions), Firebase

CS Fundamentals: Operating Systems, DBMS, Computer Networks, OOP, DSA

AI & Prompt Engineering: LLM prompt design, AI API integration, workflow automation

PROJECTS

BlogHub – Scalable Blog Publishing Platform [🔗](#)

React, Tailwind, Firebase Auth, FastAPI REST, MongoDB

- Built a blogging platform with **CRUD operations, JWT authentication, and role-based access control**.
- Designed modular **REST APIs** for content management and optimised UI with **responsive layouts & search features**.
- Ensured scalability and maintainability by adopting **microservice architecture and state management best practices**.

Crisp AI – AI-Driven Interview Preparation SaaS Platform [🔗](#)

Next.js, React, MongoDB Atlas, Gemini API, AssemblyAI API, apilayer API, REST APIs

- Engineered a **multi-API workflow**, using apilayer for **resume parsing**, Gemini for **dynamic question generation**, and AssemblyAI for **real-time voice analysis**.
- Implemented a **secure backend** with **Role-Based Access Control (RBAC)** to manage user and admin permissions on MongoDB Atlas.
- Designed a **fault-tolerant** user experience with **session persistence** to enable seamless **auto-continuation** of interrupted interviews.

EDUCATION

JSS Academy of Technical Education, Bengaluru

Bachelor of Engineering in Information Science & Engineering - 7.7 CGPA

Dec 2022 - June 2026 (Expected)

CERTIFICATE

Workshop on Generative AI by IBMers [🔗](#)

- Learnt the history and evolution of the **Generative AI** and widely used **architecture** and models.

Oracle Cloud Infrastructure (OCI) [🔗](#)

- Validated foundational expertise in Oracle Cloud Infrastructure (OCI) architecture and its core service models, including IaaS, PaaS, and SaaS.
- Acquired proficiency in key OCI services like Virtual Cloud Networks (VCN), Storage, and Identity & Access Management (IAM) to support the deployment of secure and scalable applications.

ACHIEVEMENT

- Qualified in **the top 45 teams in the SIH** internal college hackathon out of all the 90+ participating teams.
- Successfully **freelanced in UI/UX & design projects** for international clients, gaining exposure to real-world client collaboration and project delivery.
- Solved **100+ data structures & algorithms problems** across LeetCode, HackerRank, and Codeforces, strengthening core problem-solving ability.