

# ROHAN MANDAL

## Full-Stack Developer

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[LinkedIn](#) | [Portfolio](#) | [GitHub](#)

## SUMMARY

Full-Stack Developer passionate about building scalable, secure, and cloud-native systems. Proficient in Java (Spring Boot) and Python for backend development, REST APIs, and integrating AI/LLM models for intelligent features. Strong grasp of core CS fundamentals (OOP, OS, DBMS, DSA) with practical DevOps experience (Docker, Kubernetes, CI/CD). Skilled in asynchronous architectures, messaging queues (RabbitMQ/Kafka), and unit testing with JUnit/Mockito. Seeking opportunities to contribute to reliable, high-impact systems.

## TECHNICAL SKILLS

- **Languages & CS Fundamentals:** Java (Expert), Python, C++, Advanced DSA, OS, DBMS, CN, OOP
- **Backend & Cloud:** Spring Boot, Hibernate, Microservices, REST APIs, Spring Security, AWS (Basic), Docker, Messaging Queues (RabbitMQ/Kafka)
- **Frontend:** React.js, JavaScript (ES6+), Tailwind CSS, HTML, Responsive UI, API Integration
- **Database & DevOps:** MySQL (Expert), Git/GitHub, CI/CD (GitHub Actions), Postman, Jira
- **Security & Architecture:** JWT, RBAC, MFA/OTP, BCrypt, OAuth2, System Design, Scalable Architecture
- **Testing:** Unit Testing (JUnit), Mocking & Dependency Testing (Mockito)

## PROJECTS

### AI-Powered Cloud - Native Incident Management System

Jan 2025 – March 2025

- Built a cloud-native incident manager to monitor microservices and trigger real-time Twilio voice-Call, SMS/email alerts.
- Integrated a Groq LLM-based AI Assistant for instant diagnostics, cutting MTTR drastically.
- Designed multi-level escalation (Dev → Lead → CTO) with secure role dashboards for visibility.
- Containerized services via Docker & Compose, enabling CI/CD-ready deployment.
- **Tech Stack:** Python, Spring Boot, React, MySQL, Groq Llama 3.3-70B, Twilio, Docker, REST API, JWT.

### PixelForge Nexus – Secure Project Management System

Mar 2024 – May 2024

- Developed a role-based project manager with Admin/Lead/Dev roles and controlled permissions.
- Added MFA (OTP login), JWT Auth, and BCrypt encryption for enterprise-level security.
- Built role-specific dashboards and workflows for project assignment and tracking.
- Integrated Spring Security and JavaMailSender for secure authentication & email alerts.
- **Tech Stack:** Spring Boot, React, MySQL, Spring Security, JavaMailSender, JWT, BCrypt, Docker.

## EXPERIENCE

### Java Developer Intern — InnoByte Services

Sept 2025

- Built a secure Spring Boot backend for an Online Quiz App with JWT + BCrypt authentication, REST APIs, and MySQL persistence with scoring and feedback.
- Debugged, optimized, and maintained existing applications, resolving production issues and improving performance.
- Collaborated with senior developers on CI/CD pipelines, Agile workflows, and end-to-end feature development, gaining full professional software experience.

## EDUCATION

### B.Tech in Computer Science and Engineering

Sep 2022 – July 2026

Sandip University

## Additional Experience

- Worked with international clients at TechAlchemy (2023–2024), gained problem-solving skills and professional exposure while improving English communication to fluent level.
- Fluent in Marathi, English, and Hindi, enabling effective multilingual interactions.
- Completed Java Certification, demonstrating strong fundamentals and commitment to learning.