

ROHAN MANDAL

Software Developer

rohanmandal913@gmail.com | +91-9307192715 | Karjat, Maharashtra, India

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

SUMMARY

Software Developer skilled in designing scalable, secure, and cloud-native applications using Java (Spring Boot) and Python (FastAPI). Experienced in building RESTful microservices, integrating AI/LLM models (Groq, Gemini, GPT, Hugging Face), and optimizing backend performance. Strong foundation in OOP, DSA, OS, and DBMS with practical exposure to Docker, CI/CD, and AWS for deployment. Adept at writing clean, testable code with JUnit/Mockito, developing asynchronous systems, and collaborating in Agile teams. Passionate about building reliable, high-impact software that blends backend efficiency with modern AI capabilities.

TECHNICAL SKILLS

- **Languages & CS Fundamentals:** Java (Expert), Python, C++, Advanced DSA, OS, DBMS, CN, OOP
- **Backend & Cloud:** Spring Boot, Hibernate, Microservices, REST APIs, FastAPI, Flask (Basic), Spring Security, AWS (Basic), Docker, Messaging Queues (RabbitMQ/Kafka), AI/LLM Integrations-(Groq, Gemini, Hugging Face)
- **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), Performance Optimization

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.