Sharad Mishra

Software Engineer - Java & Cloud Technologies | ML/AI Engineering

+(91) 8826757647 | Pune, India 412207 | sharadm2001@gmail.com

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Results-driven Software Engineer with 6+ years of experience specializing in Java/Spring Boot microservices and cloud-native applications. Recently expanded expertise into Machine Learning and Generative AI through advanced certifications in LLM fine-tuning, transformer models, and deep learning. Proven track record in designing and implementing scalable backend solutions, with expertise in test-driven development and cloud deployment.

SKILLS

Java	Python	PyTorch	Spring Boot	Microservices	Machine Learning
Generative AI	LLM Fine-tuning	Transformers	NLP	Docker	SQL
RabbitMQ	Hibernate	JUnit	Git	TeamCity	Agile

CERTIFICATIONS

Generative AI Advanced Fine-Tuning for LLMs

IBM | Issued September 2025

Generative AI Engineering and Fine-Tuning Transformers

IBM | Issued August 2025

Generative AI Language Modeling with Transformers

IBM | Issued August 2025

Deep Learning with PyTorch

United Latino Students Association | Issued July 2025

Gen AI Foundational Models for NLP & Language Understanding

IBM | Issued July 2025

PROFESSIONAL EXPERIENCE

Freelance Projects
(11/2023 – 05/2024 and 09/2024 – 12/2024)

- Horizon Construction - Construction management and procurement application.
- Lightrol - Lightning control with IoT devices integration

Associate Engineer
Deutsche Bank (09/2020 – 07/2022)

- Architected and implemented Spring Boot-based microservices for the bank's ticket management system, improving response time by 30%.
- Developed RESTful APIs integrating with Azure Cloud and RabbitMQ messaging service, handling 100K+ daily transactions.
- Implemented test-driven development practices, achieving 80%+ code coverage.
- Collaborated with cross-functional teams to optimize API performance and reliability.

Senior Project Technical Assistant

e-Yantra, IIT Bombay (01/2017 – 07/2020)

- Designed and developed backend services for e-Yantra Social app using Spring Boot and PostgreSQL, serving 10K+ users.
- Implemented automated CI/CD pipeline using Jenkins for AWS EC2 deployment.
- Created robust REST APIs for Rakshak Application using Node.js and PostgreSQL, handling location-based services.
- Contributed to machine learning algorithms for question difficulty assessment, improving accuracy by 25%
- Managed end-to-end development lifecycle following Agile methodologies.

PROJECTS

Horizon Construction - Construction Management and Procurement

Technology Stack: Java (Spring Boot, Hibernate, REST APIs), PostgreSQL, React (Frontend), Docker, Kubernetes

- Project Planning & Scheduling: Task assignments, deadlines, and dependencies
- Procurement Management: Supplier management, purchase orders, and inventory tracking
- User Roles & Access Control: Admin, project managers, contractors, and suppliers
- Document Management: Uploading, sharing, and versioning project documents
- Real-time Reporting & Dashboards: Project progress, cost estimation, and budgeting
- Security & Compliance: Authentication (OAuth2, JWT), role-based access, and audit logs

Lightrol - Lightning Control with IoT Devices Integration

Technology Stack: Java (Spring Boot, MQTT, WebSockets), Node.js (IoT communication), MongoDB, React (Frontend), Kafka, AWS IoT, Docker

- Device Management: Registration, status monitoring, and firmware updates
- Real-time Data Streaming: IoT data ingestion via MQTT/WebSockets and processing with Kafka
- User Dashboard: Remote control of lighting, scheduling, and automation
- Energy Consumption Analytics: Usage statistics, predictive maintenance, and cost optimization
- Mobile & Web Access: Responsive UI with real-time notifications
- Security & Compliance: End-to-end encryption, role-based access, and anomaly detection
- Integration: Smart home systems (Alexa, Google Home), cloud platforms (AWS IoT, Azure IoT)

EDUCATION

Post Graduate Diploma in Digital and Advanced Computing (PG-DAC) (2016)
CDAC, Pune

Bachelor of Computer Science and Engineering (2010 - 2014)
IMS Engineering College