

# Amit Kumar Upadhyay

Mumbai, India | +91-9833194869  
amitu2016@gmail.com | linkedin.com/in/upadhyayamitk/

## SUMMARY

---

Results-driven Senior Backend Engineer with nearly 8 years of expertise in designing and deploying cloud-native applications using microservices architecture. Currently leading backend engineering at HDFC Bank, specializing in developing resilient distributed systems and modernizing legacy architectures. Proficient in Java, Spring Boot, and enterprise-grade observability.

## TECHNICAL SKILLS

---

- **Languages & Frameworks:** Java, Spring Boot, Hibernate, Spring Security, Spring Cloud, RESTful APIs
- **Cloud & DevOps:** Docker, Kubernetes, AWS, Azure, GCP, Helm Charts, Jenkins, CI/CD
- **Data & Observability:** PostgreSQL, Yugabyte DB, Kafka, RabbitMQ, OpenTelemetry, Prometheus, Grafana, ELK Stack
- **Core Engineering:** System Design, Distributed Systems, Performance Optimization, Root Cause Analysis

## PROFESSIONAL EXPERIENCE

---

### HDFC Bank

Mumbai, India

*Senior Manager*

*July 2025 – Present*

- Spearhead development of distributed microservices and lead Proof of Concepts (POCs) for innovative banking solutions.
- Architected a custom Resilience & Utility Library to standardize cross-cutting concerns, resolving stability issues across multiple microservices.
- Implemented automated Database Warmup routines to initialize connection pools, effectively eliminating cold-start latency.
- Integrated configurable retry mechanisms and exponential backoff strategies to enhance fault tolerance.
- Developed standardized observability hooks and configured Prometheus/Grafana dashboards for real-time monitoring.

### CDAC Mumbai

Mumbai, India

*Technical Lead*

*March 2018 – June 2025*

- Led the modernization of monolithic systems by migrating to microservices architecture deployed on Kubernetes.
- Containerized applications using Docker and orchestrated deployments to accelerate delivery cycles.
- Implemented robust CI/CD pipelines with Jenkins and Git, integrating DevOps best practices to streamline delivery.
- Developed secure, high-performance APIs with OAuth 2.0 and JWT authentication for third-party integrations.
- Enhanced system observability via ELK stack, improving log management and reducing incident resolution time.
- Mentored junior developers and conducted code reviews, resulting in measurable improvements in team productivity.

## EDUCATION

---

### University of Pune

2016

Bachelor of Technology in Electronics and Telecommunication Engineering

## CERTIFICATIONS & LANGUAGES

---

- Post Graduate Diploma in Advanced Computing (PG-DAC)
- Languages: English, Hindi