

# Mohit Kumar

Backend Software Engineer (Java)

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## Summary

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**Backend Software Engineer** with 4+ years of experience developing **Java** and **Spring Boot**-based backend and middleware services. I build **microservices** and **integration systems** that process **large-scale enterprise data** and enable communication between **distributed systems**. Experienced in **event-driven architectures** using **Azure Service Bus**, **REST API development**, and deploying applications on **Azure** with **Docker** and **Kubernetes**. Interested in building **high-performance backend systems and scalable data processing services**.

## Work Experience

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**Software Engineer - Kolkata, India / Vilnius, Lithuania**  
**Cognizant Technology Solutions**

July 2021 – Present

### Career Progression

Software Engineer — Jan 2024 – Present (Vilnius)  
Junior Software Engineer — Jul 2022 – Dec 2023 (Kolkata → Vilnius)  
Programmer Analyst Trainee — Jul 2021 – Jun 2022 (Kolkata)

### Backend & Middleware Development

- Designed and developed Java microservices responsible for processing over 50GB of daily enterprise data workloads.
- Built message-driven middleware services that subscribed to Azure Service Bus topics and processed events across distributed enterprise systems.
- Developed REST APIs enabling secure data exchange between multiple enterprise systems.
- Implemented secure, scalable backend architectures using Spring Boot and Spring Security for enterprise data protection.

### Data Processing Systems

- Developed batch processing applications to transform, validate, and distribute large structured data files across systems.
- Built high-volume data ingestion pipelines, ensuring 99.9% consistency for mission-critical enterprise workloads.
- Implemented asynchronous processing mechanisms that improved system throughput and reduced latency by 40%.

### Distributed Systems & Cloud Deployment

- Managed the migration of core enterprise services from on-premise infrastructure to Azure, improving operational reliability.
- Deployed containerized microservices on Azure Kubernetes Service (AKS) using Docker.
- Built CI/CD pipelines to automate builds and testing, reducing deployment cycles by approximately 30%.

### Performance Optimization

- Applied JVM tuning to optimize memory utilization and improve service throughput for data-heavy applications.
- Improved observability through structured logging and monitoring dashboards, reducing time-to-resolution for production issues.

### Collaboration & Engineering Practices

- Conducted code reviews improving code quality and reducing production defects.
- Standardized engineering practices by contributing to documentation in Jira and Confluence to improve team knowledge sharing and project transparency.

### Intern - Kolkata, India

**Cognizant Technology Solutions**

Jan 2021 – June 2021

- Completed internship training focused on Java backend development and Spring Boot fundamentals.
- Assisted senior engineers with development and testing tasks.

## Technical Skills

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- **Languages:** Java, SQL
- **Framework:** Spring Boot, Spring Data JPA, Spring Cloud
- **Architecture:** Event-driven Architecture, Microservices Design, Distributed Systems
- **Messaging:** Azure Service Bus (Queues, Topics), Kafka
- **Security:** Spring Security, OAuth2, JWT, Azure AD
- **Cloud & Infrastructure:** Microsoft Azure, Azure App Service, Azure Kubernetes Service(AKS)
- **Containers:** Docker, Kubernetes
- **Databases:** SQL Server, IBM DB2, PostgreSQL
- **Protocols:** REST, GraphQL, SOAP
- **CI/CD:** GitHub Actions
- **Monitoring:** Datadog, Logging, Performance Analysis
- **Testing:** JUnit, Mockito, Integration Testing
- **Version Control:** Git, GitHub, Bitbucket
- **Tools:** IntelliJ, Eclipse, VS Code, Jira, Confluence
- **OS:** Linux, Windows

## Projects

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### Customer Master Data Management Platform

Backend platform managing customer master data across enterprise systems.

- Developed backend services for creating, updating, and retrieving customer records.
- Built REST APIs for integration with internal and external systems.
- Implemented event-driven workflows using Azure Service Bus.
- Added validation, logging, and retry logic to improve system reliability.

**Tech:** Java, Spring Boot, JPA/Hibernate, PostgreSQL, MySQL, Azure Service Bus

### Automated Report Generation System

Backend application developed to automate report generation.

- Built APIs to trigger report generation and retrieve outputs.
- Implemented batch processing using Spring Batch for large datasets.
- Improved reliability through structured logging and error handling.

**Tech:** Java, Spring Boot, Spring Batch, MySQL, Apache POI

### Asynchronous Document Processing System (Personal Project)

- Designed and implemented a backend platform for asynchronous document ingestion and processing using Java and Spring Boot.
- Built REST APIs for document upload, processing status tracking, and retrieval of processed results.
- Implemented background processing workers to parse and transform documents without blocking user requests.
- Designed retry and failure-handling mechanisms to improve reliability of document processing workflows.

**Tech:** Java, Spring Boot, REST APIs, PostgreSQL

## Certifications

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- Certified in **Microsoft Azure Fundamentals (AZ-900)**

## Education

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### Bachelor of Technology in Computer Science and Engineering

Future Institute of Technology, Kolkata 2018 – 2021

### Diploma in Computer Science and Engineering

JP Institute of Engineering and Technology, Meerut 2014 – 2017