

Masum Ikbal

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PROFESSIONAL SUMMARY

Senior Backend Engineer with 5+ years of experience designing, developing, and scaling high-performance backend systems in large enterprise environments. Strong expertise in Java, Spring Boot, Microservices, and RESTful API design, with hands-on experience in Azure cloud services, Apache Kafka, and distributed databases.

Proven track record of owning end-to-end backend features for high-traffic consumer applications such as the TATA Neu App, including Golden Record (PII) management, referral systems, account deletion, and address management, with a strong focus on security, performance, and compliance.

Experienced in cloud-native development, data platforms, and cost optimization initiatives, including Azure Cosmos DB performance tuning, Kafka migrations, containerization strategies, and large-scale tech debt remediation (Java 21, Spring Boot 3.x, CVE fixes).

Currently working with Morgan Stanley as part of the TEA Infrastructure team at Publicis Sapient, contributing to backend modernization, Spring-to-Spring Boot migrations, and platform stability improvements in complex financial systems.

TECHNICAL SKILLS

Languages

Java, Kotlin

Frameworks

Spring Boot, Ktor, JUnit, Mockito

Databases

Azure Cosmos DB, PostgreSQL, Redis, SQL, NoSQL

Messaging & Streaming

Apache Kafka, Azure Event Hub

Cloud & DevOps

Microsoft Azure, Docker

Build & Tools

Maven, Gradle, Git, JIRA, YouTrack

Architecture

RESTful APIs, Microservices, OpenAPI

Security & Quality

Checkmarx

EXPERIENCE

Tata Digital, Mumbai

Aug 2020 – June 2025

Key Result Areas

- Worked in the core backend team for the Golden Record (GR) platform, responsible for designing, developing, and managing customer Personally Identifiable Information (PII) data at scale.
- Contributed to the Qmin application by developing Azure Databricks workflows and PySpark ETL pipelines to process and transform food menu data across IHCL brands.
- Designed and implemented the referral feature for the TATA Neu application, owning the complete lifecycle from business requirement finalization to production release.
- Designed and developed the Account Deletion feature for the TATA Neu application in compliance with data privacy and regulatory requirements.
- Led the Address Revamp feature for the TATA Neu application, improving address management, usability, and overall customer experience.

Achievement:

- Successfully executed a Dremio migration as part of a cost optimization initiative, resulting in annual savings of INR 2.4 Crore.
- Implemented partition-based search to replace cross-partition queries in Azure Cosmos DB, reducing API latency from three-digit to two-digit milliseconds and lowering database costs by 20%.
- Owned technical debt remediation for the Golden Record platform by upgrading Java to version 21 and Spring Boot from 2.x to 3.x, and resolving over 500 security vulnerabilities (CVEs).

- Designed and implemented a 4NL container strategy to replace brand-specific containers, achieving a 10% reduction in infrastructure costs.
- Migrated messaging infrastructure from Azure Event Hub to Confluent Kafka, resulting in approximately 60% operational cost reduction.
- Implemented log masking and sampling strategies to eliminate PII exposure in logs and significantly reduce logging costs.
- Developed a secure validation mechanism to prevent Gmail ID manipulation (dot, hyphen, and plus addressing) as part of fraud and risk management initiatives.
- Integrated Azure Managed Identity to enable secure access to cloud resources, eliminating hardcoded credentials and improving application security posture.

Publicis Sapient, Mumbai

July 2025 – Present

Key Result Areas

- Working with client Morgan Stanley as part of the TEA Infrastructure team, contributing to backend modernization and platform stability initiatives.

Achievements

- Owned technical debt remediation across the TEA Infrastructure team by upgrading Gradle to version 8 and modernizing the Spring Framework from 3.x to 5.x.
- Migrated legacy Spring-based applications to Spring Boot and refactored JXB-based flow nodes into standard, maintainable Java components.

EDUCATION

Jadavpur University, Kolkata

2016 - 2025

Bachelor of Technology in Electronics and Telecommunication Engineering

CGPA: 7.17

CERTIFICATIONS

- Microsoft Certified: Azure Fundamentals — Aug 2025
- Microsoft Certified: Azure AI Fundamentals — Sep 2025
- Microsoft Certified: Azure Developer Associate — Nov 2025

PERSONAL DETAILS

- **Date of Birth** — 2nd May 1997
- **Languages Known** — Bengali, English, Hindi