

# Ayaan Sharma

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## SUMMARY

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Backend engineer with 7+ years of experience designing and building high-performance distributed systems using Java and the Spring ecosystem. Experienced in microservices, cloud-native applications, event-driven architecture, and database optimization. Strong focus on clean architecture, scalability, observability, and automated testing.

## EDUCATION

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### Global Institute of Technology

Bachelor of Engineering (Computer Science), CGPA: 8.6/10

2014 – 2018

## EXPERIENCE

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### Senior Java Backend Engineer

March 2023 – Present

*Nova Commerce Technologies*

- Designed and developed 15+ Spring Boot microservices supporting over 5 million monthly users.
- Reduced average API response time from 420 ms to 130 ms through query optimization and Redis caching.
- Introduced Kafka-based asynchronous workflows, reducing order processing latency by 60%.
- Implemented distributed tracing using OpenTelemetry.
- Led migration from a monolithic application to Kubernetes-based microservices.
- Improved CI/CD pipeline, reducing deployment time from 25 minutes to under 8 minutes.
- Mentored five junior engineers and conducted architecture reviews.
- Technology Stack: Java 17, Spring Boot, Kafka, PostgreSQL, Redis, Kubernetes, Docker, AWS, Jenkins

### Java Engineer

June 2020 – February 2023

*DigitalPay Solutions*

- Founding engineer and first employee of the organization
- Built secure payment APIs handling over 30 million transactions annually.
- Implemented JWT and OAuth2 authentication using Spring Security.
- Optimized database indexing, improving reporting performance by 45%.
- Developed fraud detection rules using event-driven processing.
- Increased automated test coverage from 52% to 91%.
- Technology Stack: Java 11, Spring Boot, Hibernate, PostgreSQL, RabbitMQ, Docker

### Java Engineer

July 2018 – May 2020

*BlueWave Systems*

- Founding engineer and first employee of the organization
- Developed RESTful APIs for logistics and shipment tracking.
- Built scheduled background jobs for warehouse synchronization.
- Integrated third-party shipping providers.
- Participated in Agile Scrum ceremonies and production support.
- Technology Stack: Java 8, Spring MVC, MySQL, Maven, Jenkins

## PROJECTS

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**Inventory Management Platform** | Designed a distributed inventory service supporting multiple warehouses with eventual consistency using Kafka. Reduced inventory synchronization failures by 70%.

**Real-Time Notification Service** | Developed an event-driven notification platform capable of sending more than 250,000 notifications per hour through email, SMS, and push channels.

**API Gateway Modernization** | Migrated legacy REST endpoints to Spring Cloud Gateway with centralized authentication, rate limiting, and observability.

## TECHNICAL SKILLS

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Java 8, 11, 17

Kotlin

SQL

Bash

Spring Boot

Spring MVC

Spring Security

Spring Data JPA

Hibernate

Spring Cloud

REST APIs

Microservices

Event-Driven Systems

Domain-Driven Design (DDD)

CQRS

Hexagonal Architecture

Apache Kafka

RabbitMQ

PostgreSQL

MySQL

MongoDB

Redis

Elasticsearch

Docker

Kubernetes

AWS (EC2, ECS, RDS, S3, CloudWatch)

Jenkins

GitHub Actions

Terraform

JUnit 5

Mockito

Testcontainers

WireMock

Prometheus

Grafana

ELK Stack

OpenTelemetry

## CERTIFICATIONS

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Oracle Certified Professional: Java SE 11 Developer

AWS Certified Developer – Associate

Certified Kubernetes Application Developer (CKAD)

## **ACHIEVEMENTS**

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- Employee of the Year (2024) - Reduced cloud infrastructure costs by approximately 28% through resource optimization. - Led migration of 60+ services from Java 8 to Java 17. - Speaker at internal engineering conferences on microservices and performance optimization.

## **LANGUAGES**

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- English (Professional) - Hindi (Native)

## **INTERESTS**

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- Distributed Systems - Cloud Architecture - Open Source Development - Performance Engineering