Abhishek Sharma

Staff Software Engineer | Payments & Authentication | Java, Spring Boot, Distributed Systems

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SUMMARY

Staff Software Engineer with 10+ years building high-throughput, highly available backend systems in Java and Spring Boot. At Visa, I build the **Directory Server for Visa Secure (EMV 3-D Secure)**, which authenticates and authorizes Visa card transactions at **1,000 TPS** with **99.999% availability**, and I lead a team of 4 engineers. Proven record of scaling systems to **10x load**, building **event-driven architectures with Kafka**, integrating **payment gateways**, and leading engineers through design, code review, and delivery.

SKILLS

- **Languages & Frameworks:** Java, Kotlin, Spring Boot, Hibernate/JPA, JUnit, Mockito
- **Payments & Security:** EMV 3-D Secure, payment authentication & authorization, payment gateway integration (Stripe, Razorpay, Paytm), OAuth 2.0, secure API design
- **Distributed Systems:** Microservices, event-driven architecture, Kafka, REST, gRPC, API Gateway, circuit breaker, rate limiting, consistent hashing, caching, high availability, system design (HLD/LLD)
- **Data:** PostgreSQL, MySQL, Oracle, MongoDB, Redis, Elasticsearch, table partitioning, query optimization
- **Cloud & DevOps:** AWS (EC2, RDS, S3), Docker, Kubernetes, CI/CD, deployment automation
- **Observability & Quality:** Prometheus, Grafana, ELK, Datadog, SonarQube, BlackDuck

EXPERIENCE

Visa | Staff Software Engineer, Visa Secure | Sep 2025 – Present

- Build the **Directory Server** for Visa Secure, Visa's **EMV 3-D Secure** program, the core service that authenticates and authorizes card-not-present payment transactions between merchants and issuers.
- Engineer a mission-critical, horizontally scalable platform processing **1,000 TPS** at **99.999% availability**, using Java, Spring Boot, Kafka, Redis, gRPC, and Kubernetes.
- Lead a team of **4 engineers** automating manual release workflows, including an internal **Deployment Tool** that cut release effort by **40%**.

Porter | SDE-3, Tech Scalability Pod | Jun 2025 – Sep 2025

- Scaled core backend services to handle **10x the previous load**, identifying and resolving system bottlenecks to improve performance and user experience.
- Implemented **PostgreSQL table partitioning** for large, high-growth tables, cutting query latency by **30%** and simplifying data maintenance.

Jio Platforms Limited | SDE-3 | Dec 2022 – Apr 2025

SDE-2 (Dec 2022 – Jul 2024), promoted to SDE-3 (Jul 2024 – Apr 2025); Star Performer FY 2023-24 (A rating)*

- Led design and development of **6 Spring Boot microservices** for order fulfilment (picking, packing, labeling, printing) across Ajio B2C, B2B, and Grocery, improving shipment management efficiency by **35%**.
- Introduced **Kafka** for asynchronous communication and built a reusable **retry library** adopted across **6 services**, improving message reliability by **25%** and reducing downtime by **30%**.
- Architected the **Label Service** from scratch to automate invoice and shipping label generation, cutting processing time by **40%**.
- Boosted pack service throughput by **50%** and reduced response times through asynchronous execution and caching.
- Built centralized logging and monitoring (Elasticsearch, MongoDB, Grafana) for all microservices, improving incident response time by **40%**.
- Raised engineering standards: **90%+ unit test coverage** (20% fewer production defects) and SonarQube, BlackDuck, and Monit integration (30% fewer code issues); mentored peers and led code reviews.

FirstHive | Senior Software Developer | May 2019 – Sep 2022

Software Developer (May 2019 – Jul 2021), promoted to Senior Software Developer (Jul 2021 – Sep 2022)

- Led the **Campaign module** of a digital marketing platform serving millions of requests; re-engineered execution with Java concurrency for **30% faster** campaign runs.
- Built **WorldSwipe**, a loyalty management platform handling high-volume points accrual and redemption transactions with low latency.
- Integrated **payment gateways (Stripe, Razorpay, Paytm)** and **OAuth 2.0** for secure transactions; built 3+ microservices for user management and payment processing.
- Reduced API response times by **50%** with Redis caching; integrated Google Ads and YouTube for audience targeting; maintained 95% test coverage.

eMart Solutions India Pvt Ltd | Software Developer | Jan 2016 – Apr 2019

- Built Java REST services with request validation for a CRM and client support-ticket platform on MySQL, using multithreading.
- Optimized SQL queries for a **30%** performance gain; established JUnit testing and SonarQube coverage tracking.

ACHIEVEMENTS

- Star Performer FY 2023-24 with A* rating, Jio Platforms Limited
- Best Success Story recognition (FY 2017-18 and FY 2018-19) and Certificate of Appreciation for Q3 campaign delivery, FirstHive
- Special Recognition for exceptional performance (2016-17), eMart Solutions

EDUCATION AND CERTIFICATIONS

- **B.Tech, Computer Science and Engineering**, Dr. A.P.J. Abdul Kalam Technical University, Lucknow (2015)
- Data Structures & Algorithms, Low Level Design, High Level Design, Scaler Academy (2023-24)
- Professional Certificate in AI and Machine Learning, IIT Kanpur with Simplilearn (2023)