Abhimanyu Kumar
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Hazaribagh, Jharkhand, India

Seeking senior-level roles in Java Backend, Technical Architecture, and Machine Learning Engineering, building scalable, event-driven.

Professional Summary

Experienced Java Backend Engineer (7+ years) skilled in designing and developing **high-performance, event-driven systems**.
Specialized in **microservices, multi-module and monolithic architectures**, and **Kafka-based asynchronous processing**.
Expert in **secure API development** using **Spring Boot 3, Spring Framework 6, and Hibernate 6, SOLID principles, Test-Driven Development (TDD), modern design patterns, cloud-native tools, and domain-driven design (DDD) principles.**

Core Skills

- Languages:
  Java (17/11/8/6/5/4), Python, C/C++, Rust

- Scripting:
  Bash, Python, PowerShell, JavaScript (Node.js), Bat

- Frameworks & Tools:
  Spring Boot 3, Spring Security 6, Hibernate 6, JPA, Axum (Rust), JasperReports

- Kafka Ecosystem (Real-Time Data Platform):
  Apache Kafka (KRaft & Zookeeper modes), Kafka Connect (Debezium, JDBC, Elasticsearch, MongoDB connectors),
  Kafka Streams (microservices integration), Schema Registry (Avro),KStream, KTable
  Kafka REST Proxy, AKHQ / Confluent Control Center, Prometheus + Grafana (Kafka metrics),
  TLS/SASL security, (DLQ), Single Message Transforms (SMT)

- Messaging & Streaming:
  RabbitMQ, Apache Kafka, Kafka Stream API, Apache Storm (Spouts/Bolts), Storm-Kafka Integration

- Data Integration & Search:
  Kafka Connect, Debezium CDC, Elasticsearch, Redis, MongoDB, MySQL, PostgreSQL

- Cloud & DevOps:
  AWS (EC2, VPC, IAM, S3), Docker, Prometheus, Grafana, ELK Stack, Swagger / OpenAPI,
  CI/CD (GitHub, Jenkins), Linux Administration

- Architecture & Patterns:
  Microservices, Monolithic, Multi-Module, Outbox Pattern, Factory, Strategy, Singleton, Proxy, Adapter,
  Resilience4j

- Concurrency & Async Processing:
  CompletableFuture, ExecutorService, Thread Pools, ThreadLocal, Context Propagation

- Security:
  OAuth2, JWT, HTTPS/TLS, OWASP Guidelines, Secure Headers

- Data Engineering & Pipelines:
  Kafka + Spark Streaming, Airflow, DVC, Parquet, Delta Lake, AWS

Professional Experience:

Software Developer — Eazypaymentz (Payment Gateway Integration)
Analytiq Business Ventures | Remote | Sep 2022 – Feb 2023

Tech: Java 17, Spring Boot 3, Kafka, Redis, Elasticsearch, RabbitMQ, AWS, OAuth2, OIDC, JWT

• Engineered Zero Trust–compliant PAYIN/PAYOUT/ADMIN APIs, enforcing authentication and authorization on every request using OAuth2 + OIDC, independent of network or service origin.

• Implemented role-based (RBAC) and scope-based authorization using JWT claims, enabling fine-grained access control for admin, merchant, and system-level operations.

• Designed user tokens and service tokens with strict audience (aud) restriction and short TTLs, ensuring APIs accepted tokens only from intended callers and minimizing blast radius on compromise.

• Secured service-to-service communication using OAuth2 Client Credentials flow, eliminating shared secrets and enabling identity-centric machine authentication.

• Implemented JWT validation at the application layer, verifying signature, issuer (iss), audience, scopes, and expiry locally via JWKS without runtime IdP dependency.

• Enforced end-to-end encryption using TLS 1.2+ for all API traffic, with optional payload-level encryption using public/private key pairs for sensitive payment and PII fields.

• Integrated cryptographic key rotation for JWT signing and service encryption keys, supporting multiple active keys via kid headers and seamless rotation without downtime.

• Hardened APIs with rate limiting, contextual identity-based logging, and audit trails, ensuring all access was traceable to a user or service identity rather than IP address.

• Zero Trust security guarantees across Kafka-driven, event-based payment workflows.

• Implemented Debezium + Outbox pattern ensuring atomic message delivery and DB consistency.

• Deployed Elasticsearch search layer, cutting report latency by 80 %.

• Built Storm + Kafka fraud-detection pipeline, processing 15 K+ events/s.

Senior Java Developer — E-commerce & Food Delivery Systems

Appizum Technology | Remote | Jan 2019 – Aug 2022
Tech Stack: Java 11, Spring Boot, PostgreSQL, Redis, RabbitMQ

• Architected and developed modular microservices for cart, checkout, payment, and delivery

• Leveraged RabbitMQ for notification delivery and Redis for session storage and rate limiting

• Enabled Elasticsearch-based search on menu items and restaurant metadata

• Integrated OAuth2/JWT based login and RBAC with Spring Security

• Wrote extensive test coverage with JUnit5 & Mockito; integrated with Postman automated suites

• Designed API contracts and documented all endpoints using Swagger/OpenAPI

• Conducted query profiling and optimization to improve DB performance and resolve timeouts

• Guided junior developers and contributed to code reviews, refactoring, and mentorship

Java Developer —   CLMS | Hunar

Strategic outsourcing services [client: JAPIT] (Govt. Project) | (On-site) | *Oct 2018 – Dec 2018*

Tech Stack: Java 8, Spring Boot, MySQL

• Developed backend modules for the government training scheme tracking

• Used Spring MVC and Hibernate with custom HQL/native SQL for complex queries

• Designed JasperReports-based dynamic PDF generation and automated email delivery

• Configured role-based access control and user session management

• Ensured data integrity, input validation, and exception handling across all modules

Software Engineer — Doctor Appointment Booking System

ITZ Software Technologies (On-site) | Apr 2015 – Mar 2017
Tech Stack: Java 8, Spring Boot, MySQL

• Developed REST APIs for a Doctor Appointment Booking System with dynamic slot scheduler

• Integrated payment gateway APIs with support for refunds and transaction audits

• Fixed N+1 query issues and used Hibernate second-level caching to improve performance

• Designed and deployed services to AWS EC2, managed AMIs and environment configurations

• Built internal tools for doctor availability tracking and admin reporting

Junior Developer — SkillThrust

Avancosys (On-site) | *Nov 2012 – May 2013*
Tech Stack: Java 6, Spring 3.2, Hibernate, MySQL, AWS, DynamoDB

• Contributed to social platform "SkillThrust" with features like chat, geolocation, and reviews

• Used Google Maps API for live tracking and calendar scheduling for events

• Implemented OTP-based registration, social login (Google/Facebook), and access control

• Created validation utilities to handle anti-spam, input sanitization, and secure storage

• Supported deployment using AWS EC2/S3, worked closely with the frontend team (JSP/jQuery)

Self-Initiated Projects

Fraud-Detection Pipeline (Java 17 • Spring Boot 3 • Kafka • Storm)

Jan 2025 – Present
Stack: Java 17, Spring Boot 3, Apache Storm 2.4, Kafka, Elasticsearch 8, Redis 7, MySQL 8, Docker, Prometheus/Grafana, JUnit 5

• Built a sub-second fraud-scoring pipeline handling 15 K+ events/s with real-time enrichment and ML-based risk scoring.

• Developed fraud-enrich-svc (Web Flux + R2DBC + MySQL) achieving p99 < 40 MS at 3 K RPS.

• Designed Storm topology (3 Nimbus / 6 Supervisors) with exactly-once semantics via Storm-Kafka API.

• Indexed enriched data in Elasticsearch 8 (7-day ILM) and built Kibana dashboards with ≤ 2 s response SLA.

• Used Redis Streams + Lua for atomic high-risk alert broadcasts (P99 3 MS).

• Added Micrometer + Grafana metrics for throughput, lag, JVM GC, and topology health.

• CI/CD: GitHub Actions → Docker → Helm on Kubernetes (blue-green deploys).

AI-Enhanced Trading Platform (Java 17 • Spring Boot 3 • Python ML)

Mar 2025 – Present
Stack: Java 17, Spring Boot 3, Python ML, React / Next.js, TypeScript, MongoDB, Redis, Kafka, FreqTrade

• Achieved 100 % win-rate (59/59 trades) using 6-model ensemble (Prophet, LSTM, GRU, CNN-LSTM, Attention-LSTM, Bi-LSTM).

• Built microservices backend (Spring Boot 3 + MongoDB + Redis + Kafka).

• Integrated FreqTrade for live trading with < 3 s latency.

Trading Bot Dashboard (Frontend):

• Next.js 15 + React 19 (TypeScript) with Tailwind CSS + Radix UI.

• Real-time WebSocket charts (Recharts) and responsive UX.

Luxury Real Estate Platform (Next.js 15 • React 19 • TypeScript)

Jun 2025 – Present

• High-end property showcases for Los Angeles market with 25+ pages / 20+ components.

• Glass-morphism UI, lazy loading, SEO, and image optimization.

• MLS-style filtering, property modals, and client scheduling tools.

Learn Ink – SaaS LMS Platform (Java 17 • Spring Boot 3 • Kafka)

Feb 2024 – Present
Stack: Java 17, Spring Boot 3, Kafka, Redis, MongoDB, Elasticsearch, MySQL, React / Next.js

• Architected multi-tenant LMS with course modules, instructor dashboards, and payments (Stripe + Razorpay).

• Implemented Kafka-based notification engine + real-time Elasticsearch analytics.

• Applied CQRS pattern (MySQL write / MongoDB read models).

Secure File Sharing API (Rust • Axum • PostgreSQL)

Feb 2023 – Feb 2024
Stack: Rust, Axum, SQLx, PostgreSQL, Tokio, JWT, AES

• Designed encrypted file-sharing API with expiring links and AES encryption.

• Built on Axum + Tokio for high-performance async I/O.

• Implemented JWT auth, metadata tracking, and scheduled cleanup jobs.

Education

• MCA – University of Pune (2008–2011)

• B.A. Economics (Statistics) – St. Columba's College, Hazaribagh (2007)

Learning

• Ongoing: System Design, CI/CD[DevOps], AI/ML LLM with {Java, C++, Rust, Python} + MLOps ,Azure

Date: February 2026
Name: Abhimanyu Kumar