NARAYAN VASHISHTHA

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SUMMARY

Backend Engineer with 3+ years of experience building scalable, event-driven, and distributed systems using Java, Spring Boot, Kafka, and Redis. Skilled in microservices architecture, concurrency, multi-threaded processing, and low-latency order execution pipelines. Hands-on with AWS and Docker, with expertise in designing fault-tolerant, cloud-native backend services and performance-critical trading infrastructure.

SKILLS

Programming and Backend: Java, Spring Boot, Microservices, REST API, Hibernate, JPA, SQL, Data Structures and Algorithms, OAuth, Spring Security

Databases: PostgreSQL, Redis, BigQuery

Cloud & DevOps: AWS (Lambda, EC2, SDK, ECS), Docker, Git, GitHub, BitBucket

Streaming/Messaging: Apache Kafka

WORK EXPERIENCE

Solgard Ventures LLP, Noida
Jan 2025 – Present

Co-Founder / Software Engineer (Backend)

API Gateway

- Developed a high-performance API Gateway using Java, Spring Boot, and Redis with multi-layer rate limiting (IP-level + user-level) and JWT-based authentication.
- Achieved 200–250 requests/second throughput under 200+ concurrent users, ensuring stable performance during high-load scenarios.
- Implemented round-robin load balancing, circuit breaker pattern, and order-validation logic to prevent abusive or invalid trading requests.
- Designed a secure authorization layer using BCrypt hashing, role-based access control (RBAC), and stateless session management for horizontal scalability.
- Integrated structured logging, correlation IDs, and distributed tracing to enable full request observability across microservices.

Real-Time Order Execution System

- Architected and Developed a high-availability, event-driven order execution engine using Apache Kafka Cluster, Redis Sentinel, and Docker, enabling automatic failover, idempotent producers, and exactly-once message processing.
- Implemented multi-threaded order workers consuming from Redis Sorted Sets, using Lua-based atomic operations to guarantee concurrency safety, locking, and race-condition prevention.
- Developed a resilient recovery pipeline with a local H2 fallback buffer and Kafka recovery topic, including a scheduled retry + replay service (every 5 seconds) for handling Redis downtime, message reprocessing, and backoff retries.
- Integrated Kafka event streaming for real-time observability, audit trails, and downstream analytics pipelines.
- Containerized the entire distributed system using Docker Compose, enabling reproducible, scalable local deployments.

Share India Securities, Noida
Jan 2024 – Jan 2025

Quantitative Trading Operations

- Developed a semi-automated intraday trading system for real-time order execution, trade logging, and P/L tracking.

- Applied async order handling and low-latency design improvements.
- Implemented intraday options trading strategies for Nifty and Bank Nifty.
- Designed multithreaded modules for high-frequency operations.

Centilytics, Noida   Feb 2023 – Aug 2023
Java Developer (Backend)

Azure EA Saving Plan and AWS EBS Disk Utilisation

- Automated cloud cost reporting pipelines integrating AWS SDKs with Spring Boot.
- Successfully developed widgets to display Azure Saving Plans, showcasing client costs and daily usage limits. Handled various edge cases and contributed to renewing a prominent customer contract, negotiating a 30 Percent better financial offer.
- Integrated BigQuery for real-time analysis with optimized SQL queries.
- Delivered dynamic filtering features for cost insights.
- Automated AWS cost-reporting pipelines via Spring Boot + AWS SDKs
- Built AWS EBS Disk Utilisation widget and daily usage visualizations EBS usage anomaly monitoring modules
- Optimized parsing and SQL for reduced reporting delays.

Global Knowledge Works, New Delhi   Jan 2022 – Feb 2023
Software Developer

Education Management Portal

- Delivered end-to-end education management platform using Spring Boot and MySQL.
- Built modular APIs for registration, enrollment, and progress tracking.
- Streamlined workflows improving onboarding efficiency.
- Collaborated with stakeholders to convert requirements into production-ready systems.

EDUCATION

B.Tech in Electronics and Communication
ITS Engineering College, Greater Noida   Aug 2016 – Sep 2020