AKASH JAIN

Senior Backend Developer | Java · Kotlin · Microservices · Distributed Systems
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Personal Details: Oslo, Norway · Languages: English, Hindi, Norwegian (A1)

Education: Bachelor of Engineering (Computer Science), 2007–2011

SUMMARY

Senior Backend Developer with 13+ years of experience in Java and Kotlin, building scalable microservices, distributed systems, and mission-critical backend platforms in logistics, payments, and enterprise domains. Proven track record at Posten/Bring delivering high-availability services used by millions of users. Strong in system design, distributed event processing, performance optimization, cloud migration (Azure), secure payment flows, and end-to-end feature ownership in agile teams.

CERTIFICATIONS

- Microsoft Certified: Azure Developer Associate
- Microsoft Certified: Azure Fundamentals
- GitHub Foundations
- The Nuts and Bolts of OAuth 2.0
- Docker for the Absolute Beginner – Hands On – DevOps
- Kubernetes for the Absolute Beginners – Hands On

HONORS & AWARDS

- TCS AI Spark Award
- On The Spot Award (x2)
- Special Initiative Award

KEY ACHIEVEMENTS

- Designed a distributed event retry engine with scheduled backoff, improving resilience and reducing API failure retries by **90%**.
- Eliminated duplicate iOS user charges by implementing idempotency, reducing double-payment incidents to **zero**.
- Built and owned parcel tracking and parcel-sharing services used by **millions of users across Norway**.
- Led cloud migration of legacy systems to Azure Kubernetes & Postgres with **zero downtime**.
- Modernized DB deployment processes using Liquibase, replacing manual CLI operations across multiple services.

- Improved performance of parcel/user services by addressing DB bottlenecks, reducing response time by **40–60%**.
- Contributed to architectural decision-making, platform modernization, and CI/CD improvements.

TECHNICAL SKILLS

Senior-Level Backend Capabilities: Scalability, High Availability, Distributed Systems, Event-Driven Architecture, System Design, API Design, Observability (Logs/Tracing/Metrics), Security Best Practices, Performance Tuning, Cloud-Native Architecture, CI/CD Automation, Resilience Engineering, Fault Tolerance, Caching Strategies, Blue-Green Deployments, Domain Modeling

Backend: Java, Kotlin, Spring Boot, Microservices, REST APIs, Kafka, TDD, DDD, MockK, Kotest, BDD
Database: PostgreSQL, Oracle, PL/SQL, Liquibase, schema refactoring, DB optimization
Cloud / DevOps: Docker, Kubernetes, Azure DevOps, GitHub Actions, CI/CD, Maven, Gradle

Frontend: React, JavaScript, TypeScript (contributed to UI features for end-to-end delivery)
Tools: Git, GitHub, Bitbucket, Jenkins, TeamCity, Jira, IBM MQ, Git, GitHub, Bitbucket, Jenkins, TeamCity, Jira, IBM MQ, Control-M

ARCHITECTURE & SYSTEM DESIGN EXPERIENCE

- Designed highly available, horizontally scalable backend systems capable of handling production traffic spikes.

- Implemented observability across services using structured logging, tracing, and monitoring dashboards.

- Applied resilience patterns such as circuit breakers, retries, timeouts, bulkheads, and graceful degradation.

- Designed service boundaries using domain-driven design (DDD) and event storming techniques.

- Ensured API governance, versioning strategy, and backward compatibility for mobile and frontend clients.

- Performed capacity planning, load analysis, and optimized for low-latency, high-throughput operations.

- Event-driven microservices with Kafka for parcel lifecycle tracking and internal communication.

- Distributed retry/backoff engine using PostgreSQL queues, Spring @Scheduled tasks, and ShedLock.

- Scalable REST API design with idempotency, clear domain boundaries, and backward-compatible evolution.

- Migration from monolith to microservices with domain refactoring and decoupled service responsibilities.

- Cloud migrations to Azure Kubernetes with reverse proxy routing, blue-green deployments, and secure access.

- Database restructuring from shared public schema to application-specific schemas.

- Payment integration architecture for Adyen & NETS (recurring + scheduled payments).

EXPERIENCE

Senior Backend Developer — Posten Bring AS (TCS)

Nov 2019 – Present
Technologies: Java, Kotlin, Spring Boot, Kafka, PostgreSQL, React, Azure DevOps, Liquibase, GitHub Actions

Key Contributions: - Designed and owned backend microservices for logistics operations, parcel tracking, and user services. - Built real-time parcel event ingestion using Kafka, enabling improved tracking accuracy. - Integrated secure payment flows with Adyen & NETS supporting recurring and scheduled payments. - Migrated multiple legacy services to Azure Kubernetes and PostgreSQL Flexible Server. - Ensured GDPR compliance within user services and optimized DB queries to remove performance bottlenecks. - Actively contributed to architectural improvements and modernization of CI/CD pipelines.

Scale & Impact: Services used by **7M+ users** and process **millions of parcel events daily**.

SELECTED PROJECTS

Distributed Event Retry Engine with Scheduled Backoff

- Built a PostgreSQL-backed retry queue storing failures with metadata (retry count, delay, reason).

- Implemented dynamic backoff logic (10s → 30s → 5m → 30m → 1h) and ensured single-pod execution using ShedLock.

- Reduced manual intervention and improved eventual consistency across external API integrations.

Payment Idempotency for Purchase API (Adyen/NETS)

- Eliminated double charges on iOS by introducing idempotency keys and safe retry behaviour.

- Removed 100% of duplicate payments and reduced customer service workload.

Parcel Tracking & Parcel Sharing Services

- Developed services enabling users to track parcels, share pickup permissions, and manage deliveries in apps.

- Enhanced reliability using Kafka-based event pipelines.

PostgreSQL Migration to Azure + Liquibase Modernization

- Migrated large legacy DB to Azure Flexible Server with schema separation.

- Standardized DB deployments via Liquibase integrated into CI/CD.

Cloud Migration with NGINX Reverse Proxy

- Led migration from legacy domain to cloud infrastructure with reverse proxy-based traffic redirection.

- Ensured uninterrupted access and preserved SEO despite domain transition.

PREVIOUS EXPERIENCE

Barclays (TCS) — Java Developer

Mar 2017 – Oct 2019 - Built Spring Batch/Spring Integration microservices for financial transaction processing via IBM MQ. - Improved Basel III reporting accuracy by resolving cashflow & ledger delays. - Implemented BDD testing with JBehave.

Credit Suisse (TCS) — Java Developer

Jan 2016 – Feb 2017 - Enhanced invoicing systems using Java, EJB, PL/SQL, and Control-M. - Automated Oracle procedures and Unix scripts to streamline invoicing.

Expedia (Cognizant) — Java Developer

Oct 2015 – Jan 2016 - Integrated global airline partners and improved booking workflow stability. - Resolved GDS (Amadeus/Galileo) connectivity issues.

British Airways (Cognizant) — Java Developer

Feb 2012 – Sep 2015 - Enhanced monolithic reporting features and automated claim code generation.

American Express (Cognizant) — Java Developer

Dec 2011 – Jan 2012 - Built backend modules for automating customer data upload processes.