

AKASH JAIN

Senior Backend Developer | Java · Kotlin · Azure · Kafka · Docker · Kubernetes

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Languages: English, Hindi, Norwegian (A1)

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

SUMMARY

Senior Backend Engineer with 13+ years of experience in Java, Kotlin, Spring Boot, microservices, and distributed systems. Specialized in secure payment workflows, identity systems, event-driven architecture, and high-scale logistics platforms.

Proven expertise in:

- Designing fault-tolerant distributed systems, payment resiliency, and idempotency.
 - Performing zero-downtime migrations, infrastructure modernization, and cloud-native transformations.
 - Architecting scalable, real-time microservices with strong observability and operational excellence.
 - Delivering complex projects on time and within budget, across both Agile and Waterfall environments.
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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

- Experienced across diverse domains including **credit cards** (Amex), **airlines** (British Airways), **travel booking platforms** (Expedia), **private banking** (Credit Suisse), **investment banking** (Barclays), and **logistics** (Posten Bring).

- Modernized **GDPR compliance** by building **event-driven** data-cleanup and cross-service data-synchronization pipelines, ensuring automated and consistent governance.
 - Led cloud migration of legacy systems to Azure Kubernetes and PostgreSQL with zero downtime, and standardized DB deployments using Liquibase, replacing manual CLI-based operations.
 - Designed a **distributed event retry engine** with scheduled exponential backoff, improving system resilience and cutting repeated API failure retries by **~90%**.
 - Implemented **idempotency tokens** across payment flows, eliminating duplicate purchase events and reducing double-payment incidents to **zero**.
 - Decomposed a large monolith into **domain-driven microservices** using the strangler pattern, enabling independent scaling and faster deployments.
 - Re-architected the **parcel tracking service** into an event-driven system, reducing latency from **>10s to <2s (P99)** and **>50s to <5s (P99.9)** for millions of users.
 - Redesigned the **parcel sharing service** to support all parcel delivery types, enhancing customer experience and platform flexibility.
 - Designed and launched a **Backoffice Service** enabling customer support teams to create, track, and resolve customer cases efficiently.
 - Built a **Kafka-based delivery-instruction enrichment engine** that automatically applies delivery preferences to parcels with no manual intervention.
 - Improved performance across parcel/user domains by resolving database bottlenecks, cutting response times by **40–60%**.
 - Contributed actively to architecture decisions, modernization initiatives, and CI/CD improvements across the engineering organization.
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TECHNICAL SKILLS

Backend: Java, Kotlin, Spring Boot, Kafka, MockK, Kotest, Junit5, Mockito, Exposed, Shedlock

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, Trello, Confluence, Datadog, ELK stack, Grafana, Appstats, Azure boards, Azure Pipelines

EXPERIENCE

Senior Backend Developer — Posten Bring AS (TCS)

Nov 2019 – Present

Technologies: Java, Kotlin, Spring Boot, Kafka, PostgreSQL, React, Azure DevOps, Liquibase, GitHub Actions, Docker, Kubernetes, Git, Maven, Gradle, Datadog, Elasticsearch, Jetbrains Exposed, Mockk, Kotest, Junit5, Wiremock, Liquibase, Resilience4j, Shedlock, Redis, Caffeine, Kafka

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**.

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.