

Artem Yakshin

Senior Backend Developer · Java, Kotlin, Spring

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Summary

Backend developer with 11 years of commercial experience in Java and Kotlin. I design services from scratch and own the system architecture, from the domain model to CI/CD and production. Domains: banking products, payments, e-scooter sharing, e-commerce, industrial safety and logistics. From 2020 to 2025 I led the backend practice at CSSSR: technical interviews, developer growth, presale estimates and engineering standards.

Experience

Lead Backend Developer, CSSSR – Remote Sept 2017 – July 2025

Custom software development company. Middle developer (2017) → Senior (2018) → Lead Backend Developer (2020).

- Owned the backend of client projects end to end as the main developer: from design and domain modelling to production and support.
- Led the backend practice: ran technical interviews and performance reviews, owned developer growth and set their goals.
- Shaped the architecture and infrastructure of new projects, reviewed the team's code, took part in presale estimates.
- Built CI/CD and code quality checks for the company's backend projects: a shared build-and-deploy template for Kubernetes (TeamCity Kotlin DSL, Helm) and custom static analysis rules (detekt).

Lead Software Engineer, Russian Post, Automated Sorting Center – Podolsk July 2014 – July 2017

- Built the transfer of shipment data between services via Kafka.
- Developed REST services for desktop clients and data collection terminals; set up data exchange with external providers over JMS.
- Extended a Java EE monolith for managing transport, air cargo and routes, as well as client applications (WPF, JavaFX, Windows CE).

Projects at CSSSR

Oil & gas company — industrial safety management system May 2019 – May 2025

Main developer and backend tech lead throughout the whole project lifecycle. *Kotlin, Spring Boot, PostgreSQL, JetBrains Exposed, Keycloak, MinIO, SOAP, Kubernetes, TeamCity.*

- Designed and built the backend from scratch: a complex risk analysis domain model, a role model based on the org structure, integrations with the client's corporate systems over REST and SOAP.
- Implemented replication of models from the parent company to subsidiaries: inheritance of the base model and linked chains with each unit's local changes applied on top.
- Developed modules for incident investigations, cross-unit aggregation of indicators and change auditing of domain objects.
- Migrated the domain layer from Hibernate to JetBrains Exposed, optimized heavy SQL views and queries, kept the stack up to date (up to Spring Boot 3.4 and Kotlin 2.1).

E-scooter sharing service Feb 2024 – Dec 2024

Developer in a large distributed team; lead engineer on payments for Brazil, working in English. *Java, Spring Boot, Spring Cloud Gateway, PostgreSQL + PostGIS, AWS, Kubernetes.*

- Integrated Brazilian payment providers: card binding, two-step payments (deposit hold and capture), PIX instant payments, 3-D Secure, full and partial refunds.
- Built three microservices from scratch: a payment webhook routing gateway (Spring Cloud Gateway), a dynamic tariff coefficients service and a regulatory reporting export to city authorities over SFTP.
- Extended the core monolith: integrated dynamic pricing (by geozones and scoring) and tariff A/B tests, enforced scooter speed limits when entering restricted zones.
- Prepared the migration of geodata from JSONB to PostGIS and built a multithreaded migrator with ID-range partitioning and resume after failure.
- Worked on the support chat service over WebSocket via AWS API Gateway: attachments and geolocation, system messages, metrics.

SaaS parcel shipping platform

Feb 2023 – June 2024

Tech lead at project start: architecture from scratch, key modules and code review. *Kotlin, Spring Boot 3, Exposed, PostgreSQL / Oracle / MS SQL, Keycloak, AWS S3.*

- Designed the service foundation with support for three DBMSs (PostgreSQL, Oracle, MS SQL) for cloud and on-prem delivery, set up CI/CD and deployed a Keycloak IdP; built a custom Keycloak SPI for seamless migration of users with legacy password hashes.
- Implemented a hierarchical multi-tenant role model with permission inheritance across the sub-tenant tree, shipment tracking and scheduled manifest generation.

Oil & gas company — expert-to-project matching platform

Mar 2021 – July 2022

Designed the service architecture at the start and built key modules in the backend team. *Kotlin, Spring Boot, PostgreSQL, Exposed, ShedLock, MinIO, Firebase, BigQuery.*

- Designed the architecture of a new service (a modular monolith with BFF modules for web, mobile app, admin panel and external systems) to migrate off a legacy backend without pausing development.
- Built the admin and external-systems APIs, the application and offer lifecycle, personal data visibility rules and asynchronous push and email notifications with retries (Firebase, ShedLock).
- Built an hourly data export to BigQuery for analytics and a production database anonymization tool for the staging environment.

Airline — online store with payment in miles

Dec 2020 – Jan 2022

Main backend developer. *Kotlin, Spring Boot, PostgreSQL, Exposed, Kafka, MinIO.*

- Designed and built the service from scratch; integrated it with the airline's services: authentication, loyalty program (earning and redeeming miles), payment gateway, email.
- Integrated with a fulfillment provider: order creation, delivery options and cost calculation, batch product sync, delivery statuses.
- Pricing with miles, promo codes, VAT and delivery; stock reservation protected against race conditions; publishing order events to Kafka with ordering guarantees.

Bank — lending products

Sept 2017 – Dec 2018

Kotlin, Java, Spring Cloud, Kafka, Kafka Streams, MongoDB, Oracle, Zipkin, ELK.

- Built the backend of a point-of-sale lending project for a retail chain: SOAP API for the partner, application processing services and a fully asynchronous Kafka-based flow (including windowed event joins with Kafka Streams / KTable).
- Wrote wrappers over the bank's internal SOAP services that other teams later reused.

Skills

Programming languages: Java, Kotlin, SQL

Frameworks: Spring Boot, Spring Cloud, Spring Security, Spring WS, Hibernate / JPA, JetBrains Exposed, jOOQ

Data: PostgreSQL (PostGIS), Oracle, MS SQL, MongoDB, Redis, Flyway, Liquibase

Messaging: Kafka, Kafka Streams, AWS SQS, JMS

Integrations: REST, SOAP, GraphQL, WebSocket, OAuth2 / Keycloak, payment providers

Testing: JUnit 5, Kotest, Mockito, Testcontainers, WireMock

Infrastructure: Docker, Kubernetes, Helm, TeamCity, GitLab CI, GitHub Actions, AWS

Observability: Prometheus, Grafana, ELK, Elastic APM, Sentry

Leadership: hiring, code review, performance review, project estimation, mentoring

Languages: Russian (native), English (B2, professional working proficiency)

Education

Serpukhov Technical College, technician diploma, radio equipment engineering

2007 – 2011