Dmitrii Iamanko

Java Backend Developer

Java 21 · Spring Boot 3 · PostgreSQL · Kafka · Redis · REST / Integrations · Camunda 7
Tbilisi, Georgia (UTC+4) · Remote · B2B contract (Georgian individual entrepreneur) or EOR
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SUMMARY

Java backend developer with 6 years of experience. Spent the last 3 years on a bank-wide service portal for ~30,000 employees of a top-5 Russian bank: fault-tolerant retry processing that recovers an estimated 25–30% of failed workflow steps without an admin, PostgreSQL search optimization (~1–2 s → ~200–300 ms), Kafka notifications, HR-system and courier API integrations, and an LLM-based design tool in production. Earlier was the development lead on a retail mobile app and built a 1C integration service and CI/CD from scratch. M.Sc. in Software Engineering (ITMO).

EXPERIENCE

Java Developer

IT_One — contractor for a top-5 Russian bank

Remote · Nov 2023 – Oct 2026

Bank-wide internal service portal (~30,000 employees, up to ~2,000 new requests a day): Java 21 / Spring Boot 3.5 / PostgreSQL / Camunda 7, on-prem, 3 instances behind an F5 load balancer. Owned incident recovery and workflow tooling end to end, from analysis to production support; reviewed teammates' code in a 20+ person team.

- **PostgreSQL search performance:** rewrote the admin search over several million requests (6 tables, 10 filters, text search across 6 fields) from JPA / Criteria API to dynamic native SQL: filtering and pagination in a CTE before the joins, pg_trgm GIN indexes, whitelisted sorting, no per-page COUNT; ~1–2 s → ~200–300 ms.
- **Fault tolerance: auto-recovery of workflow steps that failed on external-system outages; an estimated 25–30% of 100–500 daily failures now recover without an admin.** Built a PostgreSQL-backed retry queue fed by error-pattern matching, with fixed-delay retries, loop protection, queue-overflow alerts and single-instance scheduling across 3 nodes (ShedLock).
- **Kafka and notifications:** wrote a notification producer and a consumer service that delivers messages via the corporate messenger API; unified read receipts across Redis, workflow tasks and requests (atomic Lua script, idempotent PostgreSQL writes).
- **Integrations:** a new courier service's API (pricing, documents, tracking) with scheduled status sync; automatic fix instructions sent to the HR system and push notifications via its v2 API.
- **LLM automation in production:** BPMN workflow generation from a plain-text service description (Dify); took it from feasibility study to production, designed the pipeline, prompts and a static analyzer; tested on 10 real processes; design time per process down from 1–2 days to ~2 hours.
- **Workflow tooling, built solo (backend + frontend):** in-portal BPMN editor with versioning and role-based publishing that replaced desktop Camunda Modeler for ~10 analysts; incident log, manual step control, error-to-fix knowledge base.

Stack: Java 21, Spring Boot 3.5, PostgreSQL, Liquibase, Kafka, Redis, Camunda 7, ShedLock, MapStruct, Docker, TeamCity, GitLab CI, Nexus, Grafana, Prometheus, Vue 2, Dify.

Software Engineer (Java Backend)

Astelit (custom software development)

Rostov-on-Don, Russia · Aug 2020 – Sep 2023

- **Developed Spring Boot backends for 3 projects, from requirements to testing, in a 6-person team:** a retail mobile app (development lead: requirements with the client, integration plan with their legacy system), an electronic document management system and a Telegram bot.
- **1C integration service, built solo from scratch:** per-table schedulers pulling 1C data in batches via its API, with integrity checks and extra image requests for product data.
- Designed inter-service REST APIs during the team's monolith-to-microservices split (notifications, data sync, bots); wrote and extended a Kafka producer for push notifications.

- Built a Grafana analytics dashboard from scratch, backed by complex SQL queries; introduced Redis to cache the retail app's home-screen data.
- Set up CI/CD from scratch (build and test pipelines, Nexus, Docker); unit-tested all my code, with some integration tests. Mentored the team's junior developer.

Stack: Java 8–17, Spring Boot, Spring Security (LDAP), PostgreSQL, Liquibase, Kafka, Redis, Grafana, Docker, Nexus, JUnit, Mockito, Vue 3.

SKILLS

- **Java:** Java 21 (also 8–17), Spring Boot 3, Spring Data JPA / Hibernate, Spring Security, REST / OpenAPI, MapStruct
- **Data:** PostgreSQL (query optimization, pg_trgm / GIN indexing), Liquibase, Redis (caching, Lua scripting)
- **Messaging & integration:** Kafka (producers, consumers), REST integrations, 1C, microservices, XML / XSD / JAXB, scheduled jobs (ShedLock)
- **Workflow:** Camunda 7 (engine API, incident handling, process instance modification, History API), BPMN 2.0, bpmn-js
- **Infrastructure:** Docker, TeamCity, GitLab CI, Nexus, Grafana (dashboards)
- **Testing:** JUnit 5, Mockito, Spring Boot Test (integration tests)
- **AI:** LLM workflow automation in production (Dify), AI-assisted development (Claude Code)
- **Frontend:** Vue 2 / 3 (internal tooling)

EDUCATION

- M.Sc. in Software Engineering — ITMO University, Saint Petersburg, 2024
- B.Sc. in Informatics and Computer Engineering — Donetsk National University, 2021

LANGUAGES

Russian — native · English — C1 (EF SET 67/100: reading and listening C2, speaking and writing B2; cert.efset.org/en/u6DAH6)