

Bogdan Davydov

Software Engineer – Backend & Full-Stack (Java)

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Summary

Software engineer with five years of experience building and operating backend and full-stack systems, with deep hands-on expertise in enterprise billing and mediation for the telecom sector. Comfortable owning features end-to-end – from requirements and architecture through backend, frontend, CI/CD and production operations. Strong in Java (Spring Boot, Vert.x), distributed data processing, cloud infrastructure and DevOps. Registered sole proprietor building and shipping independent products alongside employment.

Experience

Software Engineer & Consultant, NEWCON GmbH

mar 2025 – present

Sole engineer end-to-end on multiple enterprise projects in the telecom billing domain – two complete solutions delivered, a third shipping now, each owned from requirements and architecture through backend, frontend, deployment and ongoing support.

- Built a full web portal for uploading and managing telecom tariffs single-handedly – backend, frontend, CI/CD and production rollout (delivered).
- Re-architected and cloudified a legacy enterprise application, deployed it on the client's infrastructure and provide ongoing production support – improving reliability, scalability and maintainability (delivered).
- Rewriting an enterprise legacy Java Swing GUI application into a modern web application on Java 26: a configuration-driven framework where forms, menus and most business logic are generated dynamically from YAML config, database-agnostic across Oracle and PostgreSQL (in progress).
- Removed several thousand lines of redundant business-logic code through systematic refactoring, reducing maintenance complexity and speeding up core processing workflows.
- Stack: Java 26 / latest LTS, Spring Boot, TypeScript, Docker, Kubernetes, CI/CD.

Full-Stack Developer, Gentics Software GmbH

may 2023 – feb 2025

Full-stack development on a dynamic Content Management System serving production workloads.

- Built high-performance, scalable backend services primarily with Java (Vert.x).
- Developed and maintained web portals with PHP/Laravel and React/TypeScript for responsive, user-friendly interfaces.
- Worked cross-functionally to ship features, optimize performance and resolve complex production issues.
- Stack: Java, Vert.x, PHP, Laravel, React, TypeScript.

Internal tooling, reporting and process automation for large-scale laboratory operations.

- Developed internal tools including an employee onboarding/offboarding portal.
- Built reporting and document generation (Jasper) for laboratory operations.
- Supported and delivered projects around the GLIMS lab information management system.
- Drove digitalization and automation of internal labor processes.
- Stack: Java, Spring Boot, Python, SQL.

Projects

Java Workflow / Mediation Engine (java, mediation, data processing)

Custom Java engine for configurable data-processing workflows, inspired by DigitalRoute Mediation Zone. Directly applies telecom mediation concepts – collection, transformation and routing of high-volume records – as a from-scratch, self-designed system.

Self-Hosted Infrastructure & Observability Platform (linux, docker, observability, hetzner)

Designed and operate a self-hosted server stack (Hetzner) with containerized deployment and full observability/monitoring – end-to-end ownership of provisioning, deployment automation and reliability.

Online Auction Platform (saas, full-stack)

C2C online auction platform built as an independent SaaS product – full-stack architecture, backend and infrastructure. Approved side business as a registered sole proprietor; product ownership from concept to launch.

Security / Bug Bounty (security, bug bounty)

Participant in the City of Vienna (Stadt Wien) bug bounty program – 4 of 5 submitted vulnerability reports accepted. Also active on ImmuneFi and Bugcrowd.

Solana On-Chain Analytics (solana, indexing, backtesting)

Backend and on-chain data work in the Solana ecosystem: an own indexer, a year of aggregated launch/trade data, analytics and backtests – written up on this site.

Skills

Languages – Java, TypeScript/JavaScript, Python, PHP, SQL

Backend – Spring Boot, Vert.x, Laravel, REST APIs, high-throughput data processing / mediation

Frontend – React, TypeScript

Infra & DevOps – Docker, Kubernetes, CI/CD, Linux, cloud migration, self-hosted infrastructure, observability / monitoring

Data – PostgreSQL, relational databases, Oracle, reporting (Jasper)

Practices – SDLC ownership, system design, automation, production operations

Education

Bachelor, Automation and Computer-Integrated Technologies, Kyiv National University of Technologies and Design

Languages

German – professional; English – professional; Ukrainian – native; Russian – native

Interests

Writing: technical notes, essays – this site. On-chain data: solana, market microstructure, backtests

Updated 2026-08-01. The latest version of this CV, other formats, and the raw data are always at bogdandavydov.dev/cv.