

Benyamin Delshad

Backend Software Engineer (Kotlin · Java)

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Backend engineer with **4+ years of professional Java and Kotlin experience** building microservices with **Spring Boot, Kafka, and event-driven architecture**, including distributed workflow orchestration with Temporal, guided by Domain-Driven Design, TDD, and continuous delivery. Strong computer-science foundation: research background in distributed systems and algorithms, top-10 rank at ACM-ICPC Asia Region. Industry experience across **e-commerce and ticketing, energy, and logistics**.

CORE SKILLS

Languages	Kotlin, Java, Python, SQL, Bash, C/C++
Backend	Spring Boot, REST APIs, microservices, event-driven architecture, Apache Kafka, Avro + Confluent Schema Registry, Temporal workflow orchestration, saga pattern, idempotency, dead-letter queues
Data	PostgreSQL, Oracle DB, Flyway migrations, JPA/Hibernate
Infra & Ops	Kubernetes, Docker/Podman, GitHub Actions, GitLab CI/CD, AWS S3, Confluent Cloud, Micrometer and structured logging, Grafana
Practices	Domain-Driven Design, hexagonal architecture, Clean Code, TDD (JUnit, Kotest, MockK, Testcontainers), SonarCloud quality gates, Scrum, pair programming, code review

WORK EXPERIENCE

Software Engineer, Platform Integration (Yatta Checkout product)

07/2026 – present

Yatta Solutions GmbH · Frankfurt am Main. Yatta Checkout is Yatta's own e-commerce platform for digital goods, covering payment, fulfillment, and delivery.

- Architected and built a greenfield, **event-driven fulfillment service** (Kotlin, Spring Boot) that turns a completed purchase into everything the customer is entitled to: generated tickets, a print-at-home PDF, archival, and a delivery email.
- Designed a **Temporal workflow** orchestrating multi-channel delivery with **saga compensation**, graded blocking versus best-effort failure handling, and purchase-scoped idempotency so a retried order never delivers twice.
- Built **five Kafka and Avro consumer pipelines** against Confluent Schema Registry, each with its own retry classification, a dead-letter path, and metrics that surface a stalled consumer before customers notice.
- Implemented **VDV-KA compliant Aztec barcode rendering** as a dependency-light library (ZXing plus a hand-written 1-bit PNG encoder built on JDK primitives), verified by decode-back tests. The barcodes are scanned by real ticket-inspection devices.
- Structured the service as **six independently extractable bounded contexts** (Domain-Driven Design, hexagonal architecture), with streaming upload and download paths that never buffer a document in memory, and sanitized error boundaries that keep signed URLs and personal data out of logs.
- Drove release quality: Testcontainers-backed integration tests, a SonarCloud quality gate, reproducible builds with dependency verification, and design specs and on-call runbooks treated as deliverables.

Stack: Kotlin, Spring Boot, Temporal, Apache Kafka, Avro, PostgreSQL, Flyway, AWS S3, Kubernetes, GitHub Actions, Gradle

Software Engineer, SMA Solar Technology project (energy domain)

12/2023 – 06/2026

Yatta Solutions GmbH (consulting division) · Frankfurt am Main. Client project for SMA, a leading solar-inverter manufacturer.

- Developed an **EEBUS protocol driver in Java** to process grid-based power-limitation requests, ensuring compliance with German energy regulations (§ 14a EnWG, § 9 EEG).
- Built core **energy-management services and APIs** in a cross-functional team, optimizing end-user energy consumption and costs.
- Architected **GitLab CI/CD pipelines** automating builds, code formatting, static analysis, and test coverage.
- Sustained **80%+ customer satisfaction (NPS)** over two and a half years of iterative delivery in a Scrum team.

Stack: Java, REST APIs, Python, Bash, TypeScript, GitLab CI

Software Engineer, Rhenus Logistics project (logistics domain)

04/2022 – 11/2023

Yatta Solutions GmbH (consulting division) · Frankfurt am Main. Client project for Rhenus, one of Europe's largest logistics providers.

- Cut shipment-processing overhead with an automated **compliance system that proactively blocks high-risk shipments** to sensitive destinations.
- Engineered a **Spring Boot REST service providing end users with real-time shipment quotes**.
- Achieved **80%+ customer satisfaction (NPS)**.

Stack: Java, Spring Boot, REST APIs, JavaScript, Oracle DB

Doctoral Researcher & Teaching Assistant

10/2020 – 03/2022

University of St. Gallen · Switzerland

- Accelerated distributed-systems development by designing a **domain-specific language that automates operation-level consistency inference** (Java, NoSQL, JML).
- Taught in courses on engineering software systems, software engineering, and programming for data science.

Research Intern (M.Sc. thesis), Game Theory & Simulation

02/2020 – 09/2020

Institute of Science and Technology Austria (ISTA) · Klosterneuburg. Supervised by Prof. Krishnendu Chatterjee.

- Validated theoretical research by building **evolutionary game-theory simulations** to analyze probabilistic cooperation strategies (MATLAB).

Research Intern, Graph Algorithms for Transit Routing

04/2019 – 09/2019

IRIF (Institute on the Foundations of Computer Science) · Paris

- Modeled **public-transit networks as temporal graphs** and designed algorithms to assess infrastructure changes using real-world datasets (C/C++).

EDUCATION

M.Sc. Computer Science, Université Paris Cité (MPRI)

09/2018 – 09/2020

Paris, France. Merit-based scholarship; research-track master's (Master Parisien de Recherche en Informatique).

B.Sc. Computer Science, University of Tehran

09/2014 – 08/2018

Ranked 8th, ACM-ICPC Asia Region (2016) · two-time bronze medalist, Iranian National Mathematics Competition (2016, 2017) · teaching assistant for algorithms, graph theory, and programming courses.

LANGUAGES

English	Fluent (C1)
German	Intermediate (B1), currently taking a course
Persian	Native

INTERESTS

Travel and local cuisines, Middle-earth linguistics, Wizarding World lore, detailed LEGO models.