Aidar Gubaidulin

Senior / Staff Backend Engineer · Software Architect

Java · Spring Boot · Distributed Systems · High-Load Data Platforms · Kafka · AWS

Vilnius, Lithuania (EU) · Permanent residence permit · Authorized to work, no sponsorship · Open to B2B (Individuali veikla) or permanent · Remote (EET/UTC+2)

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SUMMARY

Backend engineer with 12 years building high-load, distributed systems on the JVM (Java, Spring Boot), now the technical lead for a maritime-AI monitoring platform. Owns architecture and end-to-end delivery across ~25 microservices that ingest 1M+ sensor metrics per minute from 1,000+ vessels using Kafka, time-series and relational databases, Redis, and AWS, and builds the backend that serves AI/ML model outputs to clients. Delivers measurable outcomes in regulated and enterprise settings: 10–15% lower fleet CO_2 emissions, and commercial database and app-server licensing eliminated through open-source migration. Treats languages as tools (deep JVM, productive in Node.js and SQL) and builds from the client's need toward outcomes they pay for. Fully remote since 2019, across international teams.

SKILLS

Languages: Java (8–21), SQL (PostgreSQL, MySQL, Oracle), Node.js. Familiar: Python, Typescript, React (academic/occasional)

Backend & Frameworks: Spring Boot, Spring, Hibernate, Liquibase, REST APIs, JUnit, Mockito, Spock

Distributed Systems & Data: Microservices, event-driven architecture, Apache Kafka, RabbitMQ, time-series databases, Redis, Apache Ignite/GridGain, high-load data pipelines

Cloud & Infrastructure: AWS (S3, Lambda, RDS, EC2), Azure Data Lake, Docker, Kubernetes / OpenShift, CI/CD (Jenkins, GitHub Actions), Git, Maven, GitHub Ac

Observability & Quality: Grafana, Prometheus, SonarQube

Practices & AI tooling: System design & architecture, AI/ML output integration, AI-assisted development (Claude Code, Copilot, Cursor), Agile, technical mentoring

Tools: IntelliJ IDEA, JIRA, Postman

EXPERIENCE

Senior Software Engineer / Technical Lead · Vessel monitoring platform

DeepSea Technologies · B2B SaaS · AI-led maritime technology (Nabtesco Group)) · Remote (B2B) · Aug 2022 – Present

- As the platform's most senior engineer, drives architectural decisions across **vessel monitoring platform** (~25 Spring Boot microservices) and led the platform-wide migration from **Java 11 to Java 21**. Owns features end-to-end from requirements to production; **mentored 3 junior/mid engineers** and ran **17 technical interviews**.
- Authors the high- and low-level **technical design documents** that QA engineers and frontend engineers rely on, covering backend implementation, frontend/backend integration, and how to test each release.
- Owns the architecture of a **high-load data platform ingesting 1M+ sensor metrics per minute (~1.4B/day) from 1,000+ vessels**: collects from REST APIs, SFTP, and Azure Data Lake with weather and AIS integrations, then persists to a **time-series DB, PostgreSQL and Redis** on **AWS (S3, Lambda, RDS, EC2)**.
- Built the **Aggregator** microservice **from scratch** (Spring Boot, Java 21); it ingests captains' noon reports and telegrams and aggregates data by day and by voyage leg, **cutting response time on key vessel-metric widgets 6x** for a smoother client experience.
- Re-engineered the **Sink** microservice for throughput: load-tested with production-replicated data and tuned JVM concurrency (executor/thread pools, ForkJoinPool), parallelizing writes by metric category into separate PostgreSQL tables. **Raised pipeline throughput 85% at the same cloud cost**.
- Integrates and serves the AI team's **ML model outputs** through platform APIs, turning model predictions into the monitoring insights and dashboards clients act on.

- Built two Spring Boot microservices delivering **Carbon Intensity Indicator (CII)** emissions tracking, which helped **retain key enterprise clients** and contributed to an estimated **10–15% reduction in fleet CO_2 emissions**.

Senior Software Engineer
3D Issue · digital-publishing SaaS · Remote · Dec 2019 – Jul 2022

- Backend engineer on a mobile-first, responsive digital-publishing platform used by global publishers including the **Chicago Sun-Times**. Owned features end-to-end across its **Experios**, **Central**, **Hub**, and **Forms** services.
- Stood up a new **Node.js** service, taking it from a proof-of-concept repo to a production-ready feature, alongside core **Java 8 / Spring Boot** work on MySQL and GCP.
- Delivered customer-facing features end-to-end: **Stripe** payment integration, and **two-factor authentication** in **3D Issue Central**, the company's auth gateway.

Software Engineer
SberTech · technology subsidiary of a major banking group (fintech) · Moscow · Jan 2018 – Dec 2019

- Contributing engineer on an architect-led internal **MLOps / model-deployment platform** that let data-science teams run ML models in production at a bank operating **~2,000 models**. Packaged models from Bitbucket and stood up **auto-scaling inference services on Kubernetes (OpenShift)**, with **Kafka** feeding feature vectors and **Jenkins/Groovy** CI/CD, under bank-grade security and compliance review.
- Built the **model-metadata repository** (complex validation) that data scientists used to register, deploy, and run ML experiments.
- Migrated the storage layer of a high-data-volume service from **Apache Ignite/GridGain** to **Oracle and Hibernate**, handling the cutover cleanly.

Software Engineer
NetCracker Technologies (NEC group) · telecom software · Moscow · Jul 2014 – Jan 2018

- Developed features for **Mediation DataFlow**, a framework for building telecom data-integration pipelines (XML/JSON transformation, validation, multi-format persistence, REST/SOAP/DB integrations). Delivered integrations for **tier-1 operators including AT&T, Orange, Turkcell, and NTT Docomo**; the framework ran hundreds of production integration flows daily across operator deployments. Stack: Java, Spring, Oracle PL/SQL.
- Sole owner of the **NC-to-XML** service, which transformed domain entities into XML feeding the integration chains. Handled all features and fixes, and **migrated it from WebLogic/Oracle to WildFly/PostgreSQL**, eliminating commercial app-server and database license costs and cutting deployment time **20%**.
- Authored the team's **junior-onboarding manual**: a hands-on Mediation DataFlow exercise (building a hierarchical department/group/student data model and surfacing it in the product UI) that became the standard first task for every new engineer.

EDUCATION

Moscow Institute of Physics and Technology (MIPT)
M.Sc. & B.Sc., Applied Mathematics and Physics · 2011 – 2018

One of the most selective technical universities in the region.

LANGUAGES (SPOKEN)

English (full professional proficiency) · Russian (native)