

# Alexey Akhundov

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## Summary

Software Engineer with a strong foundation in Java and Python, holding a B.Sc. in Software Engineering from the Higher School of Economics. Experienced in developing scalable data engineering solutions at leading Russian IT companies. Proficient in Apache Flink, Apache ZooKeeper, PostgreSQL, and distributed systems. Active open-source contributor with a focus on building production-ready applications. Passionate about solving complex technical challenges and continuously expanding expertise in backend development and data engineering.

## Education

September 2024 – . . . .

📖 **M.Sc.** Higher School of Economics, Faculty of Computer Science, Artificial Intelligence track.

September 2020 – July 2024

📖 **B.Sc.** Higher School of Economics, Computer Science, Software Engineering.

GPA: 8.28

Percentile: 9.27%

Relevant Coursework: Software Architecture, Distributed Systems, Algorithms, Software Engineering, Web Development, Backend Development

## Employment History

May 2023 – . . . .

### ■ **Yandex**, Middle Software Engineer

Yandex is one of the largest IT companies in Russia, developing widely-used software and products. Developing Java and Python applications for data engineers, adapting open-source and proprietary technologies to meet their needs. Tech stack: Apache Flink, Apache ZooKeeper, Spring Boot, jOOQ, Liquibase, PostgreSQL, and internal tools.

#### **Key contributions:**

- **Flink deployment optimization:** Implemented JobGraph compilation within service (as opposed to using Flink CLI) with low-level Flink integration, reducing job startup time by 70% average.
- **CI/CD:** Created various CI/CD pipelines for Flink clusters and jobs.
- **Observability:** Implemented a solution for flexible business metrics supply (job efficiency metrics from business perspective).
- **Operations:** Improved alerting organization, reduced noise, maintained connectors (YDB, ClickHouse, YT).
- **Knowledge sharing:** Mentored an intern to full-time position.

December 2021 – May 2023

### ■ **Sber**, Junior Software Engineer

Sber is one of the largest companies in Russia, primarily specializing in banking services. Improved business-critical products and implemented new features. Technologies: Git, Atlassian Stack (Jira, Confluence, Bitbucket), Java, and Spring.

August 2021 – December 2021

### ■ **VBC**, Intern Java Developer

VBC provides a financial marketplace and tools for tender participation. Worked with microservices architecture using the Netflix stack, implemented complex business logic, and optimized PostgreSQL database interactions. Developed a flexible credit pricing service that accounts for company/individual history, bank rules, limits, and requirements.

## Skills

Languages	■ English (B2), Russian (native).
Programming	■ Java, Kotlin, Python, JavaScript, TypeScript, Go, L <sup>A</sup> T <sub>E</sub> X.
Databases	■ PostgreSQL, Redis, MongoDB.
Frameworks & Tools	■ Spring, Apache Flink, Django, React, Svelte, Docker, Kubernetes.

## Interests

- 📖 Data Engineering, Backend Development, Distributed Systems, Data Analytics, Data Visualization, Machine Learning.

## Miscellaneous Experience

### Awards and Achievements

- 2020 📖 **2nd degree diploma**, Lomonosov Olympiad in Mathematics (MSU).
- 📖 **2nd degree diploma**, Open Olympiad in Informatics (ITMO University).
- 2019 📖 **3rd degree diploma**, Rosatom Olympiad in Mathematics (NRNU MEPhI).

## Open-source Projects

Svelte/Go, Wishlist App	<b>Wili</b> - full-stack wishlist application with create/share functionality, public pages, and Telegram WebApp integration. Features Yandex ID authentication and mobile-friendly UI. Built with SvelteKit + TypeScript (frontend) and Go microservices (backend) using PostgreSQL and MongoDB. Deployed to Yandex Cloud via GitHub Actions.
Java, Validation library	<b>ClinQ</b> - LINQ-inspired validation library providing fluent method chains, mappings, dependency checks, and reusable validators.
Python, Similar Developers Search	<b>SimDevSearch</b> - pipeline that processes GitHub repositories to find developers with similar coding patterns and commit styles using cosine similarity.
Svelte, Personal page	<b>theseems.ru</b> - personal website showcasing background and <b>projects</b> .