



Nikolaev Vitalii

Java Developer

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Languages:

German - A2

English - B2

Russian - Native

SUMMARY

A results-driven backend developer with 4+ years of experience and a strong engineering background, passionate about the entire development lifecycle and delivering robust, high-performance solutions. I am used to making things work.

PROGRAMMING SKILLS

- **Languages:** Java, C++, SQL, Go, Javascript, Python, Bash, Latex
- **Technologies:** Spring Boot, Spring Data, Hibernate, PostgreSQL, Kafka, RabbitMQ, Maven, Gradle, Git, Docker, Docker Compose, Jenkinse, Gitlab CI/CD, Kubernetes, OpenAPI, Linux, Bash, Make, CMake, VueJS, Nginx

EDUCATION

- **Bauman Moscow State Technical University (BMSTU)** Moscow, Russia
Doctor of Engineering (4 years, Candidate of Science, equiv. for D.Eng.) | Defended: 2024 Sept. 2018 – July. 2022
- **Bauman Moscow State Technical University (BMSTU)** Moscow, Russia
Mechanical Engineer (6 years, equivalent Master of Science); GPA: 4.80 Sept. 2011 – July. 2017

EXPERIENCE

- **SberBank** Moscow, Russia
The largest bank in Russia and one of the largest financial institutions in Europe September 2024 - present
Software Engineer, Java
 - **High-load automatic system for process financial transactions:** Realization of business demands, optimization of performance. Constant load of 75 million events per day
 - **Code review:** Workflow with heavy code review process. High system responsibility requires high code quality
 - **Meetups:** Conduct training meetups for team members
 - **Upgrade:** Technical upgrade Java 11 to 17 and Spring Boot 2 to 3
 - **Optimization:** reduced the running time of long-term integration tests by 5% by repacking the docker image
 - **Improving workflow:** Java GUI application for the local run number of microservice modules for local debug
- Stack:** Java 17, Maven, JDBC, PostgreSQL, Docker, Kubernetes (Openshift), Swagger
- **Digital Economy League** Moscow, Russia
A major provider of IT solutions for government and large businesses May 2023 - September 2024
Software Engineer, Java
 - **CRM system of government services for customers:** federal project for 9 time zones and about 10 000 users simultaneously
 - **Integration:** interaction with an external queue broker (the interdepartmental state broker).
 - **Custom reports:** Designed and implemented a dynamic SQL- and JDBC-based reporting engine, enabling users to generate custom reports without developer intervention
 - **Sub-project to store sensitive data:** extract them from the main database, zip, encrypt and deliver them to secure storage. Check integrity, deleting, and restoring.
 - **Gradle:** Upgraded and improved version of the build system.

- **Improving workflow:** Telegram bot for team notifications. Mock utils with Reflection for better developers unit-testing experience

Stack: Java 8, Gradle, Hibernate, PostgreSQL, Elasticsearch, Tomcat

BMSTU

Moscow, Russia

- *One of the best technical universities in Russia.*

Sept. 2018 - July 2022 formal, fact until the end of 2023

D.Eng. programm, C++/Bash

- **Foil Bearings Design Instruments (FBDI):** Handling and solving system of nonlinear differential equations, including partial differential equations. CLI and JSON input files. Data visualization with *gnuplot* and *ffmpeg*.
- **Go:** Microservice that provide REST API for work with FBDI binary and store results in PostgreSQL.
- **Bash:** Building pipelines for data processing and full CPU utilization.
- **CMake:** Setup of building system for set of static libraries and executives.
- **Hosting:** Working with self-hosted GitLab and developing full CI/CD from repository to Kubernetes (minikube)

Stack: C++, CMake, Bash, gnuplot

ENGINEERING WORK EXPEREENCE

PJSC Nauka

Moscow, Russia

- *Leading company in the production of aircraft air-conditioning systems*

January 2021 - May 2023

R&D Engineer, C++

- **Research:** Planning and conducting experiments
- **Reporting:** Preparing scientific report about results
- **Bash:** Building pipelines for data processing and full CPU utilization.
- **Mentoring:** Constant mentoring junior specialists
- **Scientific management:** Scientific management of graduation projects of students of higher educational institutions

Stack: C++, CMake, Bash, Mathcad

PJSC Nauka

Moscow, Russia

- *Leading company in the production of aircraft air-conditioning systems*

May 2015 - January 2021

Mechanical Design Engineer

- **Problem solving:** Last line technical support for production, testing and maintenance departments
- **Customer Engagement:** Meetings with customers and business trips

PROJECTS

- **Automatic system for handling financial transactions:** high-load bank system
- **System of central government accounting:** CRM system for government services. Quite a lot of integration.
- **Foil Bearings Design Instruments:** Set of solvers with CLI for providing design calculations of gas foil bearings for turbomachines.
- **www.foilbearings.ru:** Web-site/web-application to work with Foil Bearings Design Instruments software