Simon Mokrov | Backend Developer

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CONTACTS

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ABOUT ME

Backend Developer with almost **4 years** of total experience designing and implementing scalable, high-performance server-side applications and APIs. Skilled in Java (Spring Boot, Java EE), NestJS, TypeScript, relational or non-relational database,s and Docker, with strong expertise in building secure, maintainable architectures and integrating complex systems.

Professional experience spans enterprise retail, EdTech, and banking software, delivering measurable improvements in system scalability, backend performance, and reliable feature delivery within Agile teams. Experienced in designing RESTful and event-driven architectures, implementing CI/CD pipelines, and optimizing data storage.

Holds a **Master's in Digital Driven Business** (AUAS, Amsterdam), with a focus on data-driven development, machine learning, and statistics. Passionate about building robust backend systems, improving system performance, and contributing to reliable, scalable software solutions.

BACKEND EXPERIENCE (≈ 4 YEARS)

1. Backend Developer
July 2024 – Feb 2025

ITMO University — Banking software for Gazprombank

Enhanced internal systems for bank guarantees, optimizing backend workflows and enterprise data processing.

Tech stack: Java, Kotlin, Spring Boot, Gradle, PostgreSQL, Kafka, SOAP, Docker

- Reduced average response latency by 12% via endpoint refactoring.
- Improved PostgreSQL query execution by up to 20%.
- Cut report build time from 90s to 60s.
- Lowered server load by 20% after migrating to Kafka.

2. Full Stack Developer (Backend-focused)
Nov 2023 – Apr 2024

Tune IT — EdTech solutions

Developed and maintained the Skillfactory educational platform and the Polytech introduction system, focusing on backend scalability and modularity.

Tech stack: Spring Cloud, Java, Kotlin, PostgreSQL, Redis, React, TypeScript, RTK Query, Docker

- Resolved 30+ issues, improving system stability.
- Reduced design-to-development cycle by 25% with improved backend APIs.
- Cut service latency by 13% through modularization with Spring Cloud.

3. Full Stack Developer (Backend-focused)
Mar 2023 – Nov 2023

MagicGophers — Social apps for VK (largest social network in Russia)

Built backend services and APIs for VK mini-apps, ensuring performance, scalability, and data consistency.

Tech stack: NestJS, PostgreSQL, Redis, React, VK API, Docker

- Delivered apps adopted by 10,000+ users.
- Reduced bug reports by 30% within 6 months.
- Optimized DB queries, reducing latency by 25%.

4. Backend Developer (Internship)
Jan 2022 – Jun 2022

ITMO University — EdTex (OpenEdu - online learning platform)

Refactored a legacy Spring monolith (course update flow) and delivered a standalone certificate service.

Tech stack: Java, Spring (Spring Boot), Quarkus, Hibernate, Micrometer, PostgreSQL, MinIO, Docker

- Refactored the course update flow in the monolith, reducing median request latency by 8%.
- Built a Quarkus-based certificate service with Hibernate, decoupling issuance from the monolith and enabling independent scaling.
- Added Micrometer observability on a separate physical machine to expose production metrics for analysis and capacity planning.
- Containerized components with Docker; used MinIO for object storage.

FRONTEND EXPERIENCE

1. Frontend Developer
March 2024 – Present

X5 Tech — Largest retail in Russia

Developed and supported subscription services ("Package", "Abonement") in a corporate, cross-functional environment.

Tech stack: React, TanStack Query, pnpm, Axios, Chart.js, Python & FastAPI (reading)

- Increased customer retention by 12% through frontend improvements.
- Reduced release time-to-market by 15% within 6 months.
- Reduced production issues by 18% after refactoring codebase.

2. **Frontend Developer** *July 2022 – Mar 2023*
   ITMO University *— EdTech (remote exam monitoring)*
   Redesigned frontend for ITMOproctor, improving scalability and user experience.

   Tech stack: React, Redux, Vue.js, JavaScript, WebRTC, WebSockets, Axios
   - Reduced time-to-market for new features by 20% through modular architecture.
   - Decreased load times by 10% with optimized routing, state, and sockets.
   - Enabled secure streaming for 5,000+ concurrent exams using WebRTC.

RELATED EXPERIENCE

1. **Machine Learning Engineer, X5 Tech** *Feb 2025 – Apr 2025*
   Tech stack: Python, pandas, scikit-learn, SHAP, XGBoost
   Built a churn prediction model and a pricing simulation pipeline for subscriptions. Integrated results into dashboards and validated impact with A/B testing, supporting pricing optimization.

2. **Teaching Assistant, ITMO University** *Sep 2022 – Feb 2023*
   Tech stack: Java, Spring Boot, PHP, JavaScript, React, Vue.js, Angular, HTML, CSS
   Guided first-year students in programming and web development. Led Java sessions and mentored full-stack projects, enhancing technical and teaching skills.

3. **CMS on FastAPI** *2024*
   Tech stack: Python, FastAPI, PostgreSQL, Vue.Js, Vuex
   Built a CMS in a contract team project with FastAPI and PostgreSQL. Delivered a scalable solution with authentication, data modeling, and a customized admin interface.

SKILLS

Programming languages	Java, Kotlin, TypeScript, JavaScript (ES6+), Python, C
Backend frameworks	Spring Boot (Data, Security, MVC, JTA, Reactive), Java EE, Quarkus, NestJS, FastAPI
Messaging	Kafka, RabbitMQ, Amazon SQS, WebSockets, Server-Sent Events (SSE)
Networking	REST, GraphQL, gRPC, Swagger
Monitoring	Grafana, Prometheus, ELK Stack, Sentry, Micrometer
Databases	PostgreSQL, MySQL, Oracle, MongoDB, Redis, Spring Data, Hibernate, TypeORM, MiniO (S3-like)
DevOps	Docker, Git (GitHub, GitLab), CI/CD pipelines, AWS, Nginx, monorepo management, Maven, Gradle
Testing	JUnit, Jest, Vitest, Cypress, Playwright, Scrapy, Selenium
Frontend	React, Redux, Vue, Next.js, Electron, Reac, CSS3, HTML5, pnpm, vite, webpack
Machine learning	NumPy, pandas, scikit-learn, PyTorch, XGBoost

EDUCATION

Master (MSc)   **AUAS (HvA)**
Amsterdam, the Netherlands
Major: Digital Driven Business
Coursework:

- Statistical testing
- Machine learning
- Clustering
- Deep learning
- Scrapy & Selenium
- RecSys
- MLR models
- Research skills

Bachelor (BSc)   **ITMO University**
Saint-Petersburg, Russia
Major: Software Engineering
Coursework:

- Advanced and computational math
- Probability and queueing theory
- Web and low-level programming
- Algorithms and data structures
- Operating systems
- Databases
- Patterns
- Microservices

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Bachelor (BSc – Exchange semester)   **Ozyegin University**
Istanbul, Turkey
Major: Computer Science (exchange)
Coursework:

- Testing and analyzis
- Parallel Computing
- Advanced Databases
- Computer Networks