

Simon Mokrov | Full Stack Developer

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🗣 English | Russian | Dutch (A1)

ABOUT ME

Full Stack Developer with almost **4 years** of total experience building scalable, high-performance applications across frontend and backend. Skilled in JavaScript/TypeScript, Java (Spring Boot), React, Redux, NestJS, PostgreSQL, and Docker, with a strong track record in Agile teams.

Professional experience spans enterprise retail, EdTech, and banking software, with proven impact on performance, feature delivery, and system scalability. Holds a Master's in Digital Driven Business (AUAS, Amsterdam) with a focus on data-driven development, machine learning, and statistics.

Passionate about creating reliable, scalable systems and open to both backend and frontend opportunities that leverage full-stack expertise.

SKILLS

Languages JavaScript, TypeScript, Java, Kotlin, Python, C

Frontend React, Redux (TanStack/RTK), Vue.js, Next.js, Electron, React Native, Expo, Styled Components, CSS3, HTML5

Backend Spring Boot (Data, Security, MVC), Java EE, Quarkus, NestJS, FastAPI, gRPC

Messaging Kafka, RabbitMQ, Amazon SQS, WebSockets, SSE, GraphQL

Databases PostgreSQL, Oracle, MongoDB, Redis, Hibernate, TypeORM

DevOps Docker, Git, CI/CD, AWS, Nginx, webpack, vite, monorepo

ML scikit-learn, pandas, PyTorch, XGBoost, NumPy, MCP

EXPERIENCE (≈ 4 YEARS)

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.
- Accelerated delivery of planned features by 10% via Scrum practices.
- Reduced production issues by 18% after refactoring codebase.

2. Backend Developer (Part-time contract)

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.

3. Full Stack Developer

Nov 2023 – Apr 2024

Tune IT – EdTech solutions

Developed and maintained the Skillfactory educational platform and the Polytech introduction system for abiturients, focusing on scalability, usability, and performance.

Tech stack: React, TypeScript, RTK Query, SCSS, Styled Components, Spring Cloud, Java, Kotlin

- Resolved 30+ product issues, improving stability.
- Reduced design-to-development cycle by 25% with custom UI components.
- Cut service latency by 13% through modularization with Spring Cloud.

4. Full Stack Developer

Mar 2023 – Nov 2023

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

Built VK mini-apps for third-party clients, combining frontend and backend development.

Tech stack: React, VK UI, VK Bridge, VK Router, VK API, NestJS, PostgreSQL, Redis

- Delivered apps adopted by 10,000+ VK users.
- Increased conversion rates by up to 20% via UI/UX improvements.

- Reduced bug reports by 30% within 6 months.
- Optimized DB queries, reducing latency by 25%.

5. 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.

6. Backend Developer (Internship)

Jan 2022 – Jun 2022

ITMO University – *EdTech (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.

ADDITIONAL 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, HTML, CSS, 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.

EDUCATION

Master (MSc)

Amsterdam, the Netherlands

Major: Digital Driven Business

Coursework:

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

AUAS (HvA)

Bachelor (BSc)

Saint-Petersburg, Russia

Major: Software Engineering (System and Applied Software)

Coursework:

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

ITMO University

Bachelor (BSc – Exchange semester)

Istanbul, Turkey

Major: Computer Science (exchange)

Coursework:

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

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