

# Simon Mokrov | Full Stack Developer

Amsterdam, the Netherlands

## CONTACTS

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## ABOUT ME

Full Stack Developer with a Master's in Digital Driven Business and a strong background in software engineering. Skilled in React, TypeScript, Kotlin, Spring Boot, PostgreSQL, and Docker, with experience delivering scalable applications in agile environments. Seeking to contribute full-stack expertise to build high-quality software solutions.

## 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, NestJS, FastAPI, gRPC

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

**Databases** PostgreSQL, Oracle, MongoDB, Redis

**DevOps** Docker, Git, CI/CD, AWS, Nginx, web-pack, vite, monorepo

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

## EDUCATION

**Master (MSc)** **AUAS (HvA)**  
Amsterdam, the Netherlands 2024 – 2025  
**Major:** Digital Driven Business

### Coursework:

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

**Bachelor (BSc)** **Ozyegin University**  
Istanbul, Turkey 2023 – 2023

**Major:** Computer Science (exchange)

### Coursework:

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

**Bachelor (BSc)** **ITMO University**  
Saint-Petersburg, Russia 2020 – 2024

**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

## EXPERIENCE (> 3 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

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:** 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, 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.

## 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

2022

**Tech stack:** Python, FastAPI, PostgreSQL, HTML, CSS, JavaScript

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.