# Simon Mokrov | Full Stack Developer

Amsterdam, the Netherlands

## CONTACTS

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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.

## 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**                                                                    *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 — 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.

## 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.

## SKILLS

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|---|---|
| **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 |

## 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)                                  **ITMO University**
*Saint-Petersburg, Russia*                          *2020 – 2024*
**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

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**Bachelor** (BSc – Exchange semester)              **Ozyegin University**
*Istanbul, Turkey*                                  *2023 – 2023*
**Major:** Computer Science (exchange)
**Coursework:**

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