

# Simon Mokrov | Frontend Developer

Amsterdam, the Netherlands

## CONTACTS

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## ABOUT ME

**Frontend Developer** with almost **4 years** of total experience building modern, responsive, and high-performance web applications. Skilled in React, Redux (RTK), TypeScript, Next.js, Vue.js, and modern CSS frameworks, with hands-on expertise in state management, component-driven design, and frontend testing (Jest, Vitest, Cypress).

**Professional experience** spans enterprise retail, EdTech, and banking software, with a proven track record in improving application performance, user experience, and scalable frontend architectures.

Holds a **Master's in Digital Driven Business** (AUAS, Amsterdam), specializing in data-driven development, machine learning, and statistics. Open to frontend-focused roles that leverage strong React and TypeScript expertise while drawing on full-stack knowledge when needed.

## SKILLS

<b>Frontend frameworks</b>	React, Next.js, Vue.js (Vue + Vue Router), Electron, React Native, Expo, Angular, RxJS
<b>State management</b>	Redux (RTK), TanStack Query, RTK Query, Vuex
<b>Frontend styling</b>	Styled Components, Material UI, PrimeVue, Consta UI, CSS3 (Flexbox, Grid), HTML5, responsive
<b>Build tooling</b>	pnpm, npm, Webpack, Vite, Babel, ESLint, Prettier, Stylelint, turborepo, webpack module federation
<b>Networking</b>	WebSockets, Socket.IO, WebRTC, GraphQL, RESTful APIs, Axios, Server-Sent Events (SSE)
<b>Programming languages</b>	TypeScript, JavaScript (ES6+), Java, Kotlin, Python, C
<b>Testing</b>	Vitest, Jest, JUnit, Cypress, Playwright
<b>Backend frameworks</b>	Spring Boot (Data, Security, MVC, JTA), Java EE, Quarkus, NestJS, FastAPI
<b>Databases</b>	PostgreSQL, MySQL, Oracle, MongoDB, Redis
<b>DevOps</b>	Docker, Git (GitHub, GitLab), CI/CD pipelines, AWS, Nginx, monorepo management
<b>Machine learning</b>	NumPy, pandas, scikit-learn, PyTorch, XGBoost, Scrapy, Selenium

## FRONTEND EXPERIENCE (≈ 4 YEARS)

<b>1. Frontend Developer</b> <i>X5 Tech – Largest retail in Russia</i> Developed and supported subscription services ("Package", "Abonement") within a cross-functional environment, focusing on usability, modular architecture, and scalability. <b>Tech stack:</b> React, TanStack Query, pnpm, Axios, Chart.js, Python & FastAPI (reading) <ul style="list-style-type: none"><li>- Increased customer retention by 12% through new UI features and smoother subscription flows.</li><li>- Reduced release time-to-market by 15% by streamlining the frontend CI/CD pipeline.</li><li>- Accelerated feature delivery by 10% using Scrum practices and modular React components.</li><li>- Reduced production issues by 18% after frontend refactoring and improved error handling.</li></ul>	March 2024 – Present
<b>2. Full Stack Developer (Frontend-focused)</b> <i>Tune IT – EdTech solutions</i> Led frontend development of the Skillfactory educational platform and the Polytech admissions system, improving scalability and user experience. <b>Tech stack:</b> React, TypeScript, RTK Query, SCSS, Styled Components, Spring Cloud, Java, Kotlin <ul style="list-style-type: none"><li>- Resolved 30+ UI and logic issues, increasing platform stability and reliability.</li><li>- Reduced design-to-development cycle by 25% with a reusable UI component library.</li><li>- Adopted micro-frontend architecture, reducing average build time by 18s.</li><li>- Cut service latency by 13% through modularization with Spring Cloud.</li></ul>	Nov 2023 – Apr 2024
<b>3. Full Stack Developer (Frontend-focused)</b> <i>MagicGophers – Social apps for VK (largest social network in Russia)</i> Developed VK mini-apps for third-party clients with a focus on interactive UI and performance. <b>Tech stack:</b> React, VK UI, VK Bridge, VK Router, VK API, NestJS, PostgreSQL, Redis <ul style="list-style-type: none"><li>- Delivered apps used by 10,000+ VK users within 6 months.</li><li>- Increased user conversion by 20% through UI/UX enhancements.</li></ul>	Mar 2023 – Nov 2023

- Reduced bug reports by 30% within 6 months.

4. **Frontend Developer**

July 2022 – Mar 2023

*ITMO University – EdTech (remote exam monitoring)*

Redesigned and optimized the frontend for ITMOproctor, a system for monitoring online exams.

**Tech stack:** React, Redux, Vue.js, JavaScript, WebRTC, WebSockets, Axios

- Reduced time-to-market for new features by 20% through modular architecture.
- Improved load times by 10% via optimized state management and socket handling.
- Supported 5,000+ concurrent secure exam streams using WebRTC.

**BACKEND EXPERIENCE**

1. **Backend Developer (Part-time contract)**

July 2024 – Feb 2025

*ITMO University – Banking software for Gazprombank*

Enhanced enterprise-grade backend systems for bank guarantees, focusing on efficiency and reliability.

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

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

2. **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.

**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 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

Mentored students in programming and web development. Conducted Java sessions and supported full-stack project work, strengthening technical and teaching expertise.

3. **CMS on FastAPI**

2024

**Tech stack:** Python, FastAPI, PostgreSQL, HTML, CSS, Vue.js, Vuex

Built a CMS in a team project using FastAPI and PostgreSQL. Delivered a scalable solution with authentication, relational data modeling, and a custom 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

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**Bachelor (BSc – Exchange semester)**

*Istanbul, Turkey*

**Major:** Computer Science (exchange)

**Coursework:**

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

**AUAS (HvA)**

**Bachelor (BSc)**

*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

**ITMO University**