Simon Mokrov | Frontend Developer

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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.

FRONTEND EXPERIENCE (≈ 4 YEARS)

1. **Frontend Developer**　　　　　　　　　　　　　　　　　　　　*March 2024 – Present*
   X5 Tech — Largest retail in Russia

   Developed and supported subscription services ("Package", "Abonement") within a cross-functional environment, focusing on usability, modular architecture, and scalability.

   Tech stack: React, TanStack Query, pnpm, Axios, Chart.js, Python & FastAPI (reading)
   - Increased customer retention by 12% through new UI features and smoother subscription flows.
   - Reduced release time-to-market by 15% by streamlining the frontend CI/CD pipeline.
   - Accelerated feature delivery by 10% using Scrum practices and modular React components.
   - Reduced production issues by 18% after frontend refactoring and improved error handling.

2. **Full Stack Developer (Frontend-focused)**　　　　　　　　　　　*Nov 2023 – Apr 2024*
   Tune IT — EdTech solutions

   Led frontend development of the Skillfactory educational platform and the Polytech admissions system, improving scalability and user experience.

   Tech stack: React, TypeScript, RTK Query, SCSS, Styled Components, Spring Cloud, Java, Kotlin
   - Resolved 30+ UI and logic issues, increasing platform stability and reliability.
   - Reduced design-to-development cycle by 25% with a reusable UI component library.
   - Adopted micro-frontend architecture, reducing average build time by 18s.
   - Cut service latency by 13% through modularization with Spring Cloud.

3. **Full Stack Developer (Frontend-focused)**　　　　　　　　　　　*Mar 2023 – Nov 2023*
   MagicGophers — Social apps for VK (largest social network in Russia)

   Developed VK mini-apps for third-party clients with a focus on interactive UI and performance.

   Tech stack: React, VK UI, VK Bridge, VK Router, VK API, NestJS, PostgreSQL, Redis
   - Delivered apps used by 10,000+ VK users within 6 months.
   - Increased user conversion by 20% through UI/UX enhancements.
   - 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**　　　　　　　　　　　　　　　　　　　　*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.

SKILLS

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

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