

Aleksei Nizhgorodov

Frontend Engineer

Moscow, Russia — open to relocation & remote

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SUMMARY

Frontend engineer with 4 years in commercial development, focused on the hard parts: Leaflet maps, data-heavy dashboards, visualizations and WebGL. Writes custom libraries when off-the-shelf ones fall short — a PDF report engine that renders WebGL maps from React, a cartography layer that holds thousands of live markers. Has led a small frontend team and also been the sole frontend on a product. Russian native, English B2. Open to new opportunities.

SKILLS

Core: TypeScript, JavaScript (ES6+), HTML, CSS

Frameworks: React, Svelte, Next.js, Node.js, Express

Maps & data-viz: Leaflet, WebGL, Canvas, ECharts, Recharts, QGIS

State & data: MobX, Redux, Zod, REST, WebSocket, SSE, PostgreSQL, Drizzle ORM

Build & infra: Vite, Webpack, Capacitor, PWA, Service Worker, Docker, Nginx, CI/CD (GitLab)

Testing: Vitest, React Testing Library, Playwright

EXPERIENCE

Perfema — Frontend Developer

Apr 2023 — Present · Moscow

Build products from scratch: architecture, code, reviews, mentoring. Led the frontend team; on other products, the only frontend.

- **B2B occupational-health analytics.** Built the MVP in ~2 weeks — a pnpm monorepo (React + MobX, an Express BFF, shared Zod contracts), ~20 clinical dashboards, and an idempotent ingest (backoff, circuit breaker) that survives upstream outages; read-layer RBAC keeps medical data off the client.
- **Cartography & real-time monitoring.** Wrote a Leaflet / Canvas / WebGL layer that holds thousands of live markers and long GPS tracks without lag — clustering, geozones, timeline scrubbing; reused across several products.
- **Video-analytics platform.** Designed the frontend from scratch (TypeScript / React / MobX), set the patterns, ran code reviews and mentored the team; real-time Recharts dashboards; virtualization for large datasets.
- **Custom PDF report library.** Renders WebGL maps and charts straight from React components, with automatic page numbering and running headers — where jsPDF and react-pdf couldn't.
- **Gamified kids' tracker.** Two clients (a big-screen dashboard and a parent PWA) sharing real-time state; led the team packaging it into native apps on Capacitor (iOS / Android / Android TV).
- **Across products.** I18n (RU / EN + RTL Arabic), CryptoPro document e-signing in the browser, Service Worker offline/auto-update, an SSR Svelte + Strapi site, CI/CD on GitLab, tests in Vitest, React Testing Library and Playwright.

Edya — Frontend Engineer (part-time)

2025 — Present · Remote

- **VPN web cabinet.** Designed and built the production SPA (React 19, TanStack Router, MobX), white-labeled into 8 brands from one codebase; cut the initial bundle from 1706 to 656 KB (gzip 467 to 175).
- **Censorship-resilient failover.** A service worker resolves live mirrors and redirects to the first reachable one, with a static fallback — the cabinet opens even when the main domain is blocked.
- **EdyaAI — Telegram super-app.** Owned the real-time WebSocket generation engine (request registry, per-request state machine, auto-reconnect), the payments layer (plans, subscriptions, promo codes, live), and legacy-chat integration over a Telegram-to-iframe bridge.

Links: edya.org · t.me/EdyaAIrobot

Yandex — Assessor-Developer

Jan — Dec 2023 · Moscow

- Labeled programming and CS material, wrote and edited reference answers for YandexGPT on IT topics, and did fact-checking.

EDUCATION

HSE University — MSc, Digital Urbanism & City Analytics

2024 — 2026 · Moscow

Data analytics, Python, geodata, QGIS. Thesis: hse.ru/edu/vkr/1167123484

NUST MISIS — BSc, Information Systems & Technologies

2020 — 2024 · Moscow

Algorithms, data structures, software engineering.

LANGUAGES

Russian — Native · English — B2