

NIKITA KOLOSOV

Senior Software Engineer

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English: B2 (Upper-Intermediate) • Russian: Native

SUMMARY

Senior Software Engineer with 5 years of experience building high-load, real-time web applications and AI-native platforms. Deep expertise in the React ecosystem (React 19, Next.js, React Router 7), performance optimization, WebRTC/WebSocket architectures, and scalable design systems. Owns features end-to-end — from FE↔BE contract design to production observability — and consistently delivers measurable impact: -27% infrastructure cost, 1.4x rendering performance, 87% test coverage. Comfortable leading architecture, mentoring engineers, and shipping complex products, not landing pages.

WORK EXPERIENCE

Proofix

Nov 2024 – Present

Real-time video conferencing platform · Senior Software Engineer

- **Cut monthly server costs 27%** by designing and implementing a “1 room = 1 server” architecture that eliminated idle resource allocation across shared instances.
- **Improved React rendering performance 1.4x** by profiling the component tree and removing heavy recalculations and unnecessary re-renders.
- **Raised test coverage from 0 to 87%** by introducing Unit and E2E infrastructure (Playwright, React Testing Library) to an untested codebase, enabling safe refactoring and scaling.
- Automated candidate screening by designing and shipping AI-powered interview agents (voice + text) for response evaluation, removing manual review from the hiring loop.
- Delivered a facial-expression-analysis AI agent end-to-end — from problem discovery to production — improving videointeraction quality signals.
- Shipped Document Picture-in-Picture (DPiP) after competitor research, improving multitasking UX during calls.
- Established cross-stack observability with Elasticsearch and DataDog, accelerating detection and diagnosis of production issues.
- Architected real-time communication features using WebSocket, WebRTC and LiveKit.

Stack: Next.js, LiveKit, Web Workers, Framer Motion, Playwright, React Testing Library, Redux Toolkit, i18next, Node.js, Redis, Elasticsearch, DataDog

Everypixel Workroom

Sep 2022 – Oct 2024

AI-native creative platform (video & image) · Frontend Engineer

- Led the entire frontend architecture of a complex SPA aggregating **10+ third-party AI models** (Kling, Runway, Veo, Wan, Seedance) into a single video/image editing workflow.
- Sustained smooth browsing of **thousands of generated assets** by building a virtualized media library with @tanstack/react-virtual, eliminating layout thrashing and memory bloat.
- Delivered race-condition-free upload UX (concurrent uploads, format validation, thumbnail previews, async queues) using react-dropzone and async-mutex.
- Architected a **composable, accessible** (WAI-ARIA) **design system** on Radix UI primitives, ensuring consistent UX across all editing tools.
- Achieved full production visibility into client crashes and API failures by integrating Sentry across the React Router 7 application.

Stack: React 19, React Router 7, Redux Toolkit, React Hook Form, Zod, Radix UI, Framer Motion, @tanstack/react-virtual, reactdropzone, async-mutex, Sentry, TypeScript, Vite, SASS

Product engineering & outsourcing · Frontend Developer

- Delivered 3 internal products from zero to production — a survey builder, a support-chat system, and a drag-and-drop document/report constructor — serving hundreds of internal users.
- Replaced a manual report-creation process by building a drag-and-drop document constructor with React DnD, streamlining document assembly.
- Reduced support response times by integrating a real-time chat with presence indicators and message history.
- Eliminated runtime validation bugs across all forms by enforcing React Hook Form + Zod schemas.
- Standardized development environments with Docker, removing “works-on-my-machine” issues across the team.

Stack: React, React Hook Form, Zod, React DnD, Docker

EDUCATION

Moscow Aviation Institute — B.Sc. in Computer Science

Jul 2024

Coursework: Data Structures & Algorithms, Database Systems (OLAP, SQL), Information Security, Forecasting Methods, Higher Mathematics

SKILLS

Languages: TypeScript, JavaScript

Frontend Core: React 19, Next.js, React Router 7, React Native, Vue, Nuxt, Astro

State Management: Redux Toolkit, MobX, Zustand

UI & Design Systems: Radix UI, Framer Motion, React DnD, SASS/SCSS, CSS-in-JS, HTML5, CSS3, accessibility (WAI-ARIA)

Forms & Validation: React Hook Form, Zod

Real-time: WebSocket, WebRTC, LiveKit

Performance: profiling, virtualization, render optimization, Web Workers

Testing: Jest, React Testing Library, Playwright, Cypress (Unit + E2E)

Backend & Data: Node.js, Express.js, NestJS, Prisma, PostgreSQL, MongoDB, Redis, Strapi

Build & Tooling: Vite, Webpack, ESLint (flat config), Prettier, Stylelint, Husky, lint-staged, Babel, npm/pnpm/yarn

Observability: Sentry, Elasticsearch (ELK), DataDog

DevOps: Docker, Git, Nginx, PostCSS

Architecture: Feature-Sliced Design (FSD), FE↔BE contract design, distributed-systems design

Design & PM: Figma, Jira, Swagger

Soft Skills: technical leadership, mentoring, cross-functional collaboration, product-oriented thinking