Nikolai Shamov

Senior Full-Stack Engineer | Architecture of complex web systems | TypeScript, React, Node.js, PostgreSQL

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SUMMARY

Full-stack engineer with 7+ years of commercial development, focused on the architecture of complex web systems: data-heavy SPAs, real-time dashboards and integrations with industrial systems in oil and gas. I make the structural decisions (module boundaries, state and data flow, API contracts, shared UI and data standards) so the codebase survives changing requirements and new developers ramp up faster. Since 2022 also own the backend: NestJS services, APIs and PostgreSQL.

SKILLS

Architecture: SPA architecture, modular design, state and data flow, API contract design, design systems, codebase migration, integrations
Frontend: React, TypeScript, JavaScript, Effector, Redux Toolkit, TanStack Table, ECharts, Next.js, Vite, Storybook, HTML5, CSS3
Backend: Node.js, NestJS, Express.js, REST APIs, GraphQL, WebSockets, JWT/OAuth2, RabbitMQ
Data: PostgreSQL (schema design, query optimization), Redis, MongoDB, Prisma, TypeORM
Delivery: Docker, GitLab CI/CD, Linux, Vitest, Jest, Playwright, Git, Figma, Jira

EXPERIENCE

Full-Stack Engineer

Alma Services Company, enterprise software for oil and gas, remote | Feb 2022 – Present

- Designed the architecture of SPA products from scratch to production: module boundaries, state and data flow, API contracts; owned stack and data-structure decisions
- Designed REST and GraphQL APIs and NestJS services connecting the platform to internal and third-party industrial systems
- Led a staged migration to modern approaches without pausing feature work, cutting code volume in updated modules by 20%+
- Built a documented UI kit and standard solutions for data, forms and charts, adopted as the department standard; typical features 15–20% cheaper
- Built real-time dashboards on WebSockets and ECharts and large data tables on TanStack Table
- Tuned slow PostgreSQL queries and added Redis caching, reducing API response time by about 40%
- Implemented JWT/OAuth2 authentication and role-based access control for 1,000+ users
- Led design discussions with backend, QA and design; kept tech debt steady while the product grew
- Reviewed 100% of merge requests within one business day; mentored developers to independent delivery of mid-level tasks

Frontend Developer

IT-TechGroup | Sep 2020 – Feb 2022

- Developed and maintained smi2.ru, a high-traffic news aggregator (React, Redux, REST API)
- Shipped new features and optimized list rendering performance; fixed user-reported bugs
- Agreed API contracts with the backend team and took part in code review

Frontend Developer

IT outsourcing | Aug 2019 – Sep 2020

- Built desktop and mobile versions of a B2B app for finding specialized equipment (JavaScript, REST API)
- Implemented filtering, catalog and product card modules with cross-browser and cross-platform support

EDUCATION

Engineer's Degree, Information Technology – Engineering Institute of Computer Science and Radio Electronics

LANGUAGES

Russian – Native | English – B1 (strong in written and async communication)