

Aleksei Volkov

Lead Full Stack Engineer | 12+ Years | Node.js · TypeScript · React · Agentic Development

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ABOUT

Full Stack Engineer with 12+ years across financial services, banking, and retail. Deep JavaScript/TypeScript and frontend expertise; full-cycle ownership of React interfaces, Node.js backend services, SQL databases, testing, and cloud delivery. I orchestrate **agentic coding** with Claude Code, Codex, and GitHub Copilot — defining tasks, reviewing generated code, and validating results.

Building trading and operations systems for a **\$6.4B hedge fund with 55+ PM teams**: full-stack support tools, real-time analytics, and developer automation. Reduced portfolio-manager reporting **from weeks to minutes**.

SKILLS

Languages & UI: JavaScript, TypeScript, React, Next.js, HTML5, CSS3, Figma, WCAG. **Backend & Data**: Node.js, Express, NestJS, RESTful APIs, WebSockets, GraphQL, SQL, MySQL, PostgreSQL, TypeORM, API Integration. **AI / Agentic Coding**: Claude Code, Codex, GitHub Copilot, Cursor, LLMs (Large Language Models), MCP Servers, Agent Skills, AI Workflow Orchestration, AI-Generated Code Review. **Architecture**: System Design, OOP, Design Patterns, Dependency Injection, Event-Driven Architecture, BFF, Microfrontends, Module Federation, Monorepos, Design Systems. **Cloud & DevOps**: AWS, EC2, ALB / Load Balancing, CloudWatch, Docker / Containerization, Azure DevOps, CI/CD Pipelines, Build & Deployment Automation, Git / Version Control, Bash / Shell, Nginx. **Quality & Operations**: Playwright, Cucumber / BDD, Jest, Vitest, RTL, Cypress, Unit / Integration / E2E Testing, JUnit, Observability, Centralized Logging, Operational Runbooks. **Real-Time UI & Data Visualization**: D3.js, Highcharts, AG Grid, React Query, Jotai, Redux Toolkit, MobX. **Security & Desktop**: Authentication, Authorization, OAuth2, JWT, RBAC, Okta SSO, Electron, OpenFin, Glue42. **Delivery**: Requirements Gathering, Stakeholder Collaboration, Technical Documentation, Engineering Standards, Mentorship, Code Reviews.

WORK EXPERIENCE

DXC Technology

Sep 2022 – Present (4 yr)

Client: Global Multi-Manager Hedge Fund Platform — \$6.4B total assets · 55+ PM teams

- Built **full-stack operations tools** spanning React, Node.js APIs, SQL persistence, and AWS delivery — validated file editing with version recovery, incident dashboards, and Jira/email integrations.
- Cut TCA reporting from weeks to minutes for 30–40 portfolio managers**, orchestrating **~18 parallel data flows** over WebSockets with progress tracking, selective retries, and automated PDF generation.
- Built **agentic coding workflows** from ~1,000 PRs: reusable engineering standards, planning agents, shared-library discovery, and automated checks; extended **MCP tools** for trading workflows.
- Delivered **Playwright automation and 2 Azure DevOps CI pipelines**, publishing JUnit results directly into native test reporting to support a **300+ case regression suite**.
- Engineered trading-platform reliability and security: **finite-state-machine daily restarts**, **Okta SSO**, token lifecycle management, server-side restriction checks, and automated regression coverage.

Technologies: React, TypeScript, Node.js, Express, NestJS, SQL, WebSockets, MCP, Playwright, Docker, AWS, Azure DevOps.

Client: Global Fashion Retail Logistics — €39.9B revenue · 5,460 stores in 97 markets

- Migrated **3 legacy logistics apps** serving **5,460 stores across 97 markets** to a React/TypeScript microfrontend architecture (**Webpack Module Federation + Node.js/Express BFF**); the architecture became the **corporate standard** for new logistics frontend work.
- Introduced **automated frontend quality gates** with corporate linting, pre-commit hooks, and an **80% test coverage baseline**.
- Led **frontend mentorship and recurring knowledge-sharing meetings** for a **10+ person team**, documenting microfrontend conventions and corporate component-library usage.

Technologies: React, TypeScript, Next.js, Module Federation, Node.js, Express, BFF, Storybook, Jest, RTL, CI/CD

Artezio

Aug 2021 – Aug 2022 (1 yr)

Client: Universal Banking Platform — 5.7M active retail clients · ~7M digital-service users

Delivered **@holism/form-generator**, a **JSON-schema-driven banking design system and form runtime** powering loan, card, KYC, mobile, VIP, and operator workflows; **30+ controls** and shared validation/payload behavior reduced repetitive frontend form work by **~63%** for **5 teams** serving up to **5M users**.

Technologies: React, TypeScript, MobX, Inversify, styled-components, Storybook, RTL, Cypress, Rollup

innoscripta GmbH — R&D funding SaaS provider · 2,100+ signed clients

Jan 2020 – Jul 2021 (1 yr 7 mo)

Built grant CRM modules, **performance-tuned landing pages** (mobile **Core Web Vitals** — LCP, CLS — optimized to lift conversion), and **Storybook** documentation for a platform serving **~4,000 R&D projects** (up to **€2B funding potential**).

Technologies: React, TypeScript, Next.js, Webpack, PHP Laravel.

BrandContrast GmbH — PR and brand-communication agency · Frankfurt B2B digital communication

Jan 2015 – Dec 2019 (4 yr 11 mo)

Delivered **accessible, performance-optimized** PHP/WordPress web platforms for **Caterpillar Energy Solutions (MWM)** and **10+ German industrial clients** — semantic HTML, contrast-aware design, and a from-scratch CMS (kwizzly, **58 plugins**, Memcache caching) — over **5 years** of full-cycle agency delivery.

Technologies: PHP, MySQL, WordPress, JavaScript.

Lightspeed Commerce — Cloud POS and payments · \$91.3B GTV · 144K locations

Jan 2014 – Jan 2015 (1 yr)

Automated merchant product catalog import via PHP/JS + Ecwid API — reduced manual entry from **~70 products/day** to **thousands of SKUs in minutes**.

EDUCATION

Master's Degree, Computer Software Engineering — 2018

Darmstadt University of Applied Sciences — Bachelor's Degree, Computer Software Engineering — 2016

LANGUAGES

English C1 · Serbian B1 · German A1