

Viktor Konovalov

Full-stack JavaScript Engineer

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OBJECTIVE OVERVIEW

Full-stack JavaScript engineer with 10+ years of experience and a backend focus. I build scalable APIs and integrations with Node.js, and optimize frontend performance across modern JS frameworks. Skilled in clean architecture, system performance, and developer-friendly solutions. I also integrate AI features into real-world apps – using RAG pipelines, vector search, and custom prompt logic to create smarter, context-aware product flows.

TECHNICAL SKILLS

Frontend: React, Vue, ES6+, LESS/SCSS, Websockets/SSE, Canvas

Backend: Node.js (Express.js, Fastify, Restify, Hono), Bun (ElysiaJS), Serverless

Database/KV-storage: PostgreSQL, MySQL, MongoDB, Redis, Elasticsearch

also: Typescript, LangChain, MCP, RabbitMQ, Kafka, LXC/LXD, Docker, k8s, Linux, AWS, Azure

PROFESSIONAL EXPERIENCE

Stealth AI Startup (consulting, MVP)

Senior JavaScript Engineer, April 2025 — June 2025

Stack: Node.js, LangChain, TypeScript, pgvector, pglite, Ollama, OpenAI

Achievements:

- Integrated a lightweight RAG pipeline to enable context-aware navigation across a large internal documentation set;
- Designed prompt logic and retrieval strategy to surface relevant user history and improve semantic discovery;
- Tuned vector search for speed and relevance using custom embeddings + pgvector;
- Consulted on architectural trade-offs, performance, and fallback strategies for production deployment.

Elai.io

Senior Full-stack JavaScript Engineer, May 2022 — December 2024

Stack: Node.js, Express.js, MongoDB, React, AWS (EC2, S3, CloudFront)

Achievements:

- Partially migrated backend architecture from monolith to (micro)services, including video transcoding with ffmpeg;
- Implemented caching and optimized event loop utilization, reducing application loading time by 5x;
- Optimized rendering for 4K content and animations (3x performance);
- Added support for custom fonts, ensuring reliable rendering across browsers and video output;
- Built a public API with webhooks;
- Successfully implemented Single Sign-On functionality tailored for enterprise use;
- GPT integration;
- CI/CD and other devops tasks (AWS/Azure);
- Provided essential support during penetration testing (2 successful results), addressing identified vulnerabilities and ensuring compliance with SOC 2 standards.

Lyvit Group Limited

Senior Full-stack JavaScript Engineer/Android developer, February 2017 — January 2022

Stack: Node.js (MERN/PERN); Vue; Android, Flutter, DevOps

Achievements: Full-stack implementation of various types of projects from scratch, including leading the architecture and stack selection for key projects.

Worked on the backend using Express.js, Fastify, and NestJS, with PostgreSQL, Redis, MongoDB, RabbitMQ, S3-based DigitalOcean Spaces and building microservices and services hosted in LXC/LXD containers. The projects included a mobile app for finding sports activities and a vitamin store (SPA, Vue). Additionally, developed an MVP Android application independently. Contributed to implementing a real-time chat feature using WebSockets.

Flames Group SIA

Full-stack JavaScript Engineer

November 2015 — January 2017 | Chernihiv, Chernihivs'ka Oblast', Ukraine

Stack: Node.js, Angular, Vue. Developed a support system for users and agents, enabling communication via web for users and through web, Jabber, and a desktop application built with Electron for support agents; ESB integration, global ACL.

Freelance

Web developer, October 2012 — October 2015 | Full-stack js with all related technologies. Got experience with video transcoding, high-load (module for Nginx to lookup directly into Redis cache), interactive maps based on svg, service for independent audit.

Flames Group SIA

Software Developer

January 2012 — October 2012 | Chernihiv, Chernihivs'ka Oblast', Ukraine

Web development (JavaScript, Java), system development (Java/JNI, C/C++) —
VoIP based software

Soft Industry Ltd.

.NET developer

September 2010 — January 2012 | Chernihiv, Chernihivs'ka Oblast', Ukraine

Stack: C#, ASP.NET, ASP.MVC, Silverlight, WindowsForms

Web system for British American Tobacco; Seaport analysis system.

Education	Languages
Chernihiv National University of Technology Master of Computer Science, September 2006 – February 2012	Ukrainian — Native or Bilingual Proficiency English — Upper-Intermediate/Professional Working Proficiency