

Stefan Samokhval

Backend Software Engineer

Node.js · TypeScript · Go · PostgreSQL

“Any fool can write code that a computer can understand. Good programmers write code that humans can understand.”

Martin Fowler

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Address  
Podgorica, Montenegro

Socials

LinkedIn  
stefan-samokhval-b51958259

Languages

Ukrainian  
Native

Montenegrin  
Professional working

English  
Professional working

Serbian  
Professional working

Chinese  
Elementary

Experience

Feb 2026 – Jun 2026 Kharkiv, UA

ZGRZ Software Engineer / AI Adoption Lead ZAGROZA Agency

AI Engineering & Developer Productivity Tools  
Developed internal AI-powered tools to support software development, code review, and engineering decision-making.  
Implemented an AI code review assistant for pull request analysis, change summaries, risk detection, and potential regression identification.  
Built AI-based risk analysis workflows to detect risky changes, edge cases, and possible bugs before merge.  
Developed vulnerability analysis functionality to identify potential security issues and unsafe patterns in the codebase.  
Integrated AI-assisted development workflows into the engineering process, including code analysis, review automation, and developer productivity tooling.  
Designed project-specific prompts, rules, and workflows to improve AI output quality, consistency, and reliability.  
Worked on automation around AI code editors, BugBot-like analysis, security checks, and pre-merge validation.

Role: Team Lead, Architecture, Software Engineer, AI Engineer

Tech: TypeScript, Node.js, Directus 11, PostgreSQL, Redis, Docker, GitLab CI/CD, Zod, Vitest

Developed and maintained production backend systems across multiple client products. Responsible for API development, business logic, integrations, asynchronous processing, authentication, deployment workflows, and backend architecture. Also drove adoption of AI-assisted engineering practices for code review, risk analysis, and developer productivity.

Selected Projects

SiteVO — B2B Job Financial Management Platform

- Developed backend services covering client management, quotes, variations, invoicing, payments, and project lifecycle management.
- Designed multi-tenant data isolation, state-based workflow guards, public token-based approval flows, audit history, and project event tracking.
- Built asynchronous workers for PDF generation and transactional email delivery.
- Implemented authentication flows including email/password, Google and Apple SSO, and mobile redirect flows.
- Integrated Twilio/WhatsApp, Stripe, OpenAI, SendGrid, and PDF.co.

OOVango — Automotive Marketplace

- Developed production backend functionality for an automotive marketplace serving French overseas territories.
- Built custom Directus extensions including REST endpoints, lifecycle hooks, and background daemons.
- Implemented vehicle ingestion from FTP/XML feeds, saved-search matching, queued notifications, and retry-based email delivery.
- Integrated Salesforce CRM, France Travail, and Citadelle Jobs APIs.
- Worked on schema-as-code, PostgreSQL backups, Docker deployments, and GitLab CI/CD pipelines.

Hero Diabetic Exchange — Medical Device Buyback Platform

- Developed backend functionality for dynamic pricing, order processing, and administrative workflows.
- Implemented shipping-label generation, tracking polling, and status-driven email/SMS notifications.
- Built QuickBooks synchronization for customers, products, invoices, and invoice lifecycle reconciliation.
- Developed pricing rules and public APIs for price calculation and order placement.
- Integrated ShipEngine, SendGrid, Twilio, QuickBooks, and reCAPTCHA.

Feb 2023 – Feb 2025 Budva, MNE

SweetSoft INC Middle Software Engineer

KleverGurme — Restaurant Mobile Application  
Developed a cross-platform restaurant mobile application supporting menu browsing, user profiles, and delivery orders  
Implemented backend APIs and integrated mobile application with server-side services  
Participated in cloud deployment and environment configuration

Developed backend and application functionality across delivery, analytics, and fintech products. Worked with microservice-based architectures, backend APIs, payments, transaction processing, real-time workflows, and data-processing systems. Collaborated with backend and mobile teams on integration, reliability, and scalability.

Selected Projects

Aniway — Delivery & Taxi Platform

- Developed backend services supporting separate customer and driver applications.
- Implemented order-processing workflows and real-time driver assignment.
- Worked with mobile and backend teams on cross-platform integrations.

PayLedger — Crypto Payment System

- Developed backend services supporting TRX and TRC20 cryptocurrency payments.
- Implemented transaction-processing logic and automated fund-transfer workflows.
- Integrated blockchain payment functionality with backend services and databases.
- Contributed to secure transaction handling and overall system reliability.

TradeFlow — Cryptocurrency Exchange Platform

- Contributed to a microservice-based cryptocurrency exchange platform.
- Implemented backend services for payments, user management, and transaction processing.
- Worked with existing service boundaries and system data flows.
- Contributed to scalability, reliability, and security improvements.

Dec 2023 – Dec 2024 Podgorica, MNE

Coinis Middle Fullstack Developer

Estitor — Real Estate Platform  
Developed backend and frontend features for a web platform connecting property buyers, renters, and agencies  
Implemented listing management, search functionality, and user-facing components  
Worked on backend business logic and API integration  
Contributed to performance improvements and system scalability

Developed backend and frontend functionality across marketplace, conversational AI, and offline-first products. Worked on application business logic, APIs, integrations, client-facing functionality, performance, and reliability.

Selected Projects

Converso AI — Conversational AI Platform

- Developed backend and frontend functionality for an AI-based text and voice conversational system.
- Implemented automatic language detection and multilingual response handling.
- Integrated NLP pipelines and speech-recognition functionality for real-time voice interaction.
- Worked on API integrations and user-facing application features.

Nexa — Offline Browser Environment

- Developed frontend and backend functionality for a Chrome-based offline working environment.
- Implemented offline file storage, multimedia playback, and browser functionality without internet access.
- Worked with offline-first data-handling patterns.
- Optimized client-side logic for performance and reliability.

Jun 2022 – Jun 2023 Kriviy Rih, UA

Webnauts Junior Backend Developer

Bookingest — Book Data Processing Service

- Designed and implemented a microservice-based data parsing and processing system.
- Automated collection, cleaning, and normalization of data from external book sources.
- Built background-processing pipelines focused on performance and scalability.
- Worked on reliability of data ingestion and storage.

Developed Python backend services and data-processing functionality. Worked on API development, data ingestion, authentication, access control, external integrations, and maintainable backend architecture.

Selected Projects

PTV.UA — News & Blogging Platform

- Developed backend services using Python and Django.
- Implemented content-management functionality, authentication, and role-based access control.
- Integrated third-party APIs and external data sources.
- Contributed to maintainable backend architecture and system stability.

Education



EuroCC 2

AI Engineering certificate  
Dec 2023



OktenWEB

JavaScript Developer  
certificate  
Oct 2023



OktenWEB

Java Developer certificate  
Jul 2024



Arizona State University

English Upper – Intermediate  
May 2019



Green Forest

English Upper – Intermediate  
Sep 2024

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Skills

Development

|          |                                                                                                                                                        |         |
|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| React JS | <ul style="list-style-type: none"><li>• React Native<ul style="list-style-type: none"><li>• Next.js</li></ul></li><li>• Redux, Redux Toolkit</li></ul> |         |
| Node JS  | <ul style="list-style-type: none"><li>• Nest.js</li><li>• Express</li></ul>                                                                            |         |
| Python   | <ul style="list-style-type: none"><li>• Django</li><li>• FastAPI</li></ul>                                                                             |         |
| Golang   |                                                                                                                                                        |         |
| REST API | gRPC                                                                                                                                                   | GraphQL |

Database

|                  |         |       |
|------------------|---------|-------|
| PostgreSQL       | MongoDB | Redis |
| Async processing |         |       |

Cloud & DevOps

|        |     |    |        |
|--------|-----|----|--------|
| AWS    | EC2 | S3 | Lambda |
| Docker |     |    |        |

Blockchain / Fintech

|                                |     |       |
|--------------------------------|-----|-------|
| Cryptocurrency Payments        | TRX | TRC20 |
| Transaction Processing Systems |     |       |

AI / Data

|                         |                   |                           |
|-------------------------|-------------------|---------------------------|
| NLP & Speech Processing | AI-driven Systems | Data Processing Pipelines |
|-------------------------|-------------------|---------------------------|

Tools & Practices

|               |                          |                     |
|---------------|--------------------------|---------------------|
| Git           |                          | GitHub              |
| System Design | Performance Optimization | Agile / Scrum, Jira |