

Vadim Seliukov

Backend & AI-Systems Engineer

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Prague · Remote · UTC+1 (authorized to work in the EU)

Backend-focused engineer with **3+ years** shipping production systems: APIs, data pipelines, integrations, and AI-agent infrastructure. Strong in **Python / FastAPI** and getting **AI agents to act reliably and safely**. Creator of ezRPC (open-source HTTP/3 RPC framework) and Cushio (open-core AI-agent reliability & safety layer).

EXPERIENCE

Backend & Data Engineer · Newly Booked

Aug 2023 - Present

Owned backend, data, and integration systems end-to-end for a booking & operations platform, working closely with the founders and the sales and ops teams · Remote

- Built a custom, Airflow-like **data-orchestration platform** from scratch: a scheduler running **~14 prioritized worker tasks**, each on its own interval, with retries, backfills, and load-based auto-scaling across processes/threads, normalizing **13+ sources** (GoHighLevel, Twilio, Meta, Google Analytics, Google Sheets, internal services) into a MongoDB source of truth at **~99.8% uptime**.
- Built the **analytics + AI layer**: embedded **1.5M+ messages, 100k+ conversations, and 1.2M+ calls** (OpenAI embeddings, MongoDB Atlas Vector Search) to power semantic search and analytics over sales and call-center interactions, surfacing conversation mistakes and **lifting conversion rate by 18%**.
- Integrated CRM, calendar, booking, and telephony platforms (GoHighLevel, Twilio, Monday, Google), including **no-official-API** services, using idempotent syncs and retry/reconciliation logic.
- Built **100+ production automations** (n8n) across lead intake, call transcription, appointment lifecycle, onboarding, and reporting, removing an estimated **30-50 hrs/week of manual ops**.

Freelance Developer · Upwork

Mar 2023 - Aug 2023

Built websites and Python automation/scripting for international clients · Remote

SELECTED PROJECTS

Cushio open-core · [cushio.ai](#)

A reliability & safety net for AI agents that take real actions: execution receipts, outcome-aware idempotency, and a queryable, undoable action ledger. Open-core, in active development. Python, FastAPI, PostgreSQL, MCP.

ezRPC open-source · [github.com/kermite-frogs19/ezRPC](#)

A FastAPI-style RPC framework for HTTP/3, built on aioquic with MessagePack. Brings familiar Python ergonomics (routing, typed models) to QUIC, with companion HTTP/3 and HTTP clients.

SKILLS

AI	AI-agent engineering, LLM integration, tool use / MCP, vector search / embeddings, agent reliability & safety	BACKEND	Python, FastAPI, Django, Node.js, Express.js, NestJS, Kafka, HTTP/3
DATA	PostgreSQL, MySQL/MariaDB, MongoDB, DynamoDB, SQLite, data engineering, Airflow, Databricks	SCRAPING	Web scraping (Playwright, patchright), undocumented-API integration, integration design
CLOUD	AWS, Cloudflare, Fly.io, DigitalOcean, Docker, Kubernetes, Git, GitHub Actions	FRONTEND	React, Next.js, TypeScript; automation with n8n, GoHighLevel

EDUCATION

MSc, Computer Engineering (System Engineering)

2025 - Present

Kharkiv National University of Radio Electronics (KhNURE)

BSc, Computer Engineering

2021 - 2025

Kharkiv National University of Radio Electronics (KhNURE)