

Yuriy Melnikov

SENIOR BACKEND ENGINEER · TECH LEAD · PLATFORM ENGINEER

yuriy@mlnkv.dev | mlnkv.dev

github.com/jmelnikov | linkedin.com/in/jmelnikov

11+

years of professional experience

20+

microservices in the current platform

3

engineers on the team I lead

Multi-region

architecture behind my own product

PROFILE

An engineer who owns the whole system

I design, build, and operate backend systems where reliability, transparency, and predictable delivery matter. I own the full engineering lifecycle - from architecture and data modeling to API development, CI/CD, observability, and production operations. I lead a small team and make architectural decisions for 20+ services.

ADAL CLOUD LLP, Kazakhstan

January 2026 - Present

Founder & Platform Engineer

I am building a multi-region platform that receives, stores, inspects, routes, and redelivers webhooks without silently modifying their payloads.

- Designed regional infrastructure with dedicated databases and queues.
- Implemented deterministic retries, request replay, delivery tracing, and real-time inspection.
- Built multi-destination delivery with exact forwarding of headers and payloads.
- Created an open-source Go CLI that forwards webhooks locally without open ports, a static IP, or a reverse proxy.
- Own backend development, CI/CD, deployments, observability, security, and production operations.

STACK: Go, PHP, PostgreSQL, Redis, Docker, Linux, WebSocket, Cloudflare, object storage

EXPERIENCE

Technical leadership & production

LT Management

March 2025 - Present

Senior Backend Engineer · Infrastructure Lead

Backend engineering, technical leadership, and ownership of production infrastructure for internal product systems.

- Lead a team of three engineers across architecture, task breakdown, code review, quality, and delivery.
- Develop an internal platform of 20+ Node.js microservices backed by PostgreSQL.
- Replaced manual deployments with reproducible GitLab CI/CD pipelines, enabling weekly releases and controlled rollbacks.
- Own containerization, server configuration, monitoring, and system reliability.

STACK: Node.js, Go, Java, PostgreSQL, Docker, Linux, GitLab CI, microservices

EXPERIENCE

Consulting and earlier roles

Independent Consulting & Contract Work

September 2016 - Present

Backend Engineer

Ongoing commercial work across fintech, insurance, e-commerce, media, and enterprise software.

- Build backend services and REST APIs for web and enterprise applications.
- Integrate payment, insurance, and internal business systems.
- Design data models and optimize SQL across PostgreSQL, MySQL, MariaDB, MongoDB, and Redis.
- Improve production systems through refactoring, troubleshooting, and reliability work.

STACK: PHP, Symfony, Go, PostgreSQL, MySQL, MariaDB, MongoDB, Redis, Docker

Earlier Product Roles

2014 - 2025

Backend Engineering & Systems Implementation

Experience across construction, fintech, media, e-commerce, insurance, and banking software.

- Developed an internal ERP backend for a construction business and helped build a Symfony product from scratch.
- Worked on internal financial systems, media products, and integrations with e-commerce marketplaces.
- Spent more than three years at Carcopy building backend services and automating external data exchange.
- Started my career implementing and supporting banking software, including regional rollouts and user training.

STACK: PHP, Symfony, REST APIs, XML, JSON, SQL, CI/CD, banking and insurance integrations

EXPERTISE

Technology & engineering practice

BACKEND Go, gRPC, PHP 8, Symfony, Node.js, Java, REST API, WebSocket	ARCHITECTURE Distributed systems, microservices, multi-region infrastructure, API design and systems integration
DATA PostgreSQL, MySQL, MariaDB, MongoDB, Redis, SQL, indexing, and query optimization	PLATFORM & DELIVERY Docker, Linux, NGINX, GitLab CI/CD, Cloudflare, monitoring, and logging
LEADERSHIP Architecture, task breakdown, code review, quality, technical documentation	APPROACH Ownership, reliability, transparency, reproducible releases, production mindset

EDUCATION

Education & languages

Moscow Institute of Technology 2025 - 2028 · Bachelor's degree, in progress Applied Computer Science · Web and Mobile Application Technologies	LANGUAGES Russian - Native English - B1 (Intermediate)
Institute of Law 2016 - 2020 · Bachelor's degree · Law	LINKS adal.cloud github.com/adal-cloud/adal-cli github.com/jmelnikov
College of Technology and Service 2003 - 2007 · Software for Computer and Automated Systems	