Yuriy Melnikov

SENIOR BACKEND ENGINEER · TECH LEAD · PLATFORM ENGINEER

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11+ years of professional experience	**40+** services in the internal ERP 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 an internal ERP platform of 40+ services.

ADAL CLOUD LLP, Kazakhstan

January 2026 - Present

Founder & Platform Engineer

Adal Cloud helps developers connect HTTP integrations and diagnose delivery failures. The platform comprises 20+ services. It receives webhooks, runs outgoing HTTP requests through an API, and gives local services a public HTTPS address through Adal CLI. I founded the project and lead its architecture, development, and operations.

- Inbound: regional URLs, multi-recipient delivery over HTTP or Adal CLI, and per-recipient attempt history.
- Outbound API: asynchronous HTTP requests, automatic retries, idempotency keys, and attempt diagnostics.
- HTTP tunnels: public HTTPS access to local services through Adal CLI.
- MCP: manage Inbound Servers and inspect captured webhooks.
- Designed regional request execution and time-limited HTTP data retention.
- Own CI/CD, deployment, observability, security, and production operations.

STACK: Go, PHP, PostgreSQL, RabbitMQ, Docker, Linux, GitLab CI/CD, GitHub Actions, gRPC, 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 and evolve an internal ERP platform comprising 40+ services 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

Institute of Law
2016 - 2020 · Bachelor's degree · Law

College of Technology and Service
2003 - 2007 · Software for Computer and Automated Systems

LANGUAGES

Russian - Native
English - B1 (Intermediate)

LINKS

adal.cloud
github.com/adal-cloud/adal-cli
github.com/jmelnikov