

# Mikhail V. Martynenko

Senior DevOps & Backend Engineer | System Architect | High-Load Systems | CI/CD | Linux, Go, Python

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## Profile

Senior **DevOps & Backend Engineer** with 15+ years in IT and public-sector digital transformation. Designs and delivers systems end-to-end: from servers, networks, and virtualization to CI/CD automation and high-load backend services in **Go** and **Python**. Hands-on and product-oriented professional with experience introducing DevOps culture, Git workflows, and AI-assisted systems for smart city and video-surveillance projects.

## Key Highlights

- Built a Go-based high-load service processing 7M+ records/day.
- Rolled out GitLab CI/CD for multiple teams; reduced deployment time by 60%.
- Deployed and managed PostgreSQL clusters for mission-critical workloads.
- Integrated neural-network systems for image quality and recognition monitoring.
- Reconfigured 3 micro data centers (40+ servers, 40+ network devices); implemented KVM/zVirt and Zabbix for 400+ hosts.
- Automated provisioning with Ansible; standardized environments and backups (RAID + tape).
- Deployed NetBox as a source of truth; integrated with Zabbix and Telegram alerts.

## Tech Stack

**DevOps / Infrastructure:** Linux (Astra, Ubuntu), Docker, Kubernetes, Terraform, Ansible, ArgoCD, GitLab CI/CD, Nginx/Ingress, Vault, Prometheus, Grafana, Loki, NetBox, Zabbix, VPN, RAID/tape, Yandex Cloud

**Backend Development:** Go, Python (FastAPI, Django), REST APIs, async processing, Webhooks, Telegram Bots

**Databases:** PostgreSQL (replication/HA), SQL optimization, data modeling

**Domains:** High-load data pipelines, Smart City / GIS, video analytics, AI/ML integration

## Professional Experience

### LLC GC Favor — Information Technology Engineer

Krasnodar, Russia | May 2023 – Present

- Designed and deployed a Go-based high-load service handling 7M+ daily records.
- Built GitLab CI/CD pipelines for multiple teams, reducing deployment time by 60%.
- Deployed and managed PostgreSQL clusters and AI-based image analysis systems.
- Introduced Git workflow, unified repositories, and standardized DevOps practices.
- Deployed Nextcloud and improved collaboration across engineering teams.
- **Project 'Safe City':** Reconfigured 3 micro data centers (40+ servers, 40+ devices), implemented KVM virtualization, Zabbix monitoring (400+ hosts), and NetBox setup.
- **Regional Video Surveillance Network:** Developed reverse-geocoding software, automated host registration (~1000 devices), integrated NetBox↔Zabbix, and implemented Telegram alerts.

### Rostelecom — Project Manager

Krasnodar, Russia | Jul 2021 – May 2023

- Led Digital Economy and Smart City projects in the Krasnodar region.
- Developed GIS-based digital twin systems integrated with federal digital platforms.
- Built a mini-GIS system (Python, Django, MySQL, Leaflet) automating technical assignments.
- Proposed a concept for an energy performance contract management system.

### City Administration of Krasnodar

Krasnodar, Russia | Sep 2016 – May 2021

- Developed legal and IT frameworks for the City Information Resource Registry.
- Upgraded municipal GIS and video surveillance infrastructure.
- Deployed Linux-based video servers to reduce network load.
- Implemented Dr.Web Enterprise AV (1200+ endpoints) and IPS Dallas Lock (120 hosts).
- Initiated transition to electronic document management and improved interdepartmental collaboration.

## Education & Certifications

**Kuban State University of Technology (KubSUT)** — Master of Engineering, Computer Software Engineering (1999–2004)

**Schiller International University** — Master's in International Business (2008–2009)

**The Russian Presidential Academy of National Economy and Public Administration (RANEPA)** — Chief Digital Transformation Officer, Advanced Training (2019)

**Yandex Practicum** — Advanced Go Developer (Apr 2024–Nov 2024); DevOps Engineer (Oct 2022–May 2023)

**Skillfactory** — Full-stack Python Web Developer; Python Data Analysis (2020)

## Languages

Russian — Native

English — Fluent (Full professional proficiency)

French — Upper-Intermediate (inactive, previously proficient)