Alexander Gomanov

Infrastructure & Platform Architect

Distributed Systems · DevOps / SRE · AI-Driven Engineering

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SUMMARY

Infrastructure architect who designs and runs production systems, builds platforms, improves production reliability and keeps infrastructure spend under control. I focus on hard technical problems — root cause analysis, architecture decisions, evaluating technology options — and on seeing the chosen option through to production. I combine DevOps/SRE practice, systems thinking and AI agents that help me investigate and automate engineering work.

Target roles: Infrastructure / Platform Architect, Staff Platform Engineer, SRE / Reliability Architect — as an individual contributor with architecture ownership and accountability for the outcome.

SELECTED ARCHITECTURE PROJECTS

New S3 backend for on-prem product deliveries — SimpleOne, 2026 **(selection approved, release in progress)**
A licensing change made shipping the previous S3 backend to customers risky. Built a 20+ criteria requirements matrix (AMQP events, lifecycle, IAM, SSE-KMS, SigV4, client compatibility), compared three options and two storage layouts (2× replication vs. 1.4× 10+4 erasure coding), and wrote two ADRs and a 30-case test plan. SeaweedFS (Apache 2.0, ~95% of the matrix) was selected; a test migration was demonstrated on staging. The plan for ~8 TiB / 1.8M objects includes checksum verification, a read-only cutover window and a burn-in period; production migration follows the release.

Infrastructure for agentic software development — SimpleOne, since Oct 2026 **(pilot)**
Infrastructure track of a cross-functional initiative (~13 people) in which AI agents carry tasks through delivery stages and humans decide at quality gates. I own the infrastructure environment and its architecture document: isolated per-engineer VMs, an OAuth-protected read-only MCP server for the corporate platform, least-privilege GitLab tokens, secrets kept out of the agent's environment, and a dedicated network segment with firewall rules as code. Process metrics are defined but not yet measured.

RCA: corrupted objects in MinIO on a single OS — SimpleOne, 2026 **(root cause confirmed)**
Working with an AI agent, traced the failure to PHP code relying on readdir() order, which differs between ext4 and XFS, plus two related defects. Confirmed the hypothesis with a single-variable experiment (switching the filesystem); unblocked support for the new OS and handed the code fix to the development team.

Kubernetes readiness audit of 15 microservices — SimpleOne, 2026 **(audit complete)**
Found 20+ blockers — hard-coded DNS names and IPs, loopback defaults, localhost-bound health checks, addresses compiled into code — and proposed fixes (mandatory variables with fail-fast, Kubernetes Services). Adopted as the basis for migration planning; a Kubernetes sandbox of the product was demonstrated in Aug 2026.

PostgreSQL/Patroni: from incident to reproducible configuration — ITGLOBAL.COM, 2025 **(completed)**
Manual node-level changes were never stored in DCS/etcd and broke replication on failover. Documented the root cause in the post-incident review, moved corrective actions into DCS and playbooks, and organized a refresh covering 80% of service health models.

KEY RESULTS

- OS support policy with load testing as a mandatory gate — approved by the CTO (SimpleOne, 2026).
- 17× fewer production incidents and −25% infrastructure and software spend (Smart Dynamics).
- 4 productized managed services with SLAs; custom monitoring with a 7-minute 24/7 response; 2× DevOps service revenue from a key client (ITGLOBAL.COM).

EXPERIENCE

Head of Infrastructure Department

Feb 2026 — present

SimpleOne (ITG group), Saint Petersburg

Infrastructure and platform for a product shipped to customers on-premises as an HA cluster on 20+ servers: reliability, code delivery, storage, the path to Kubernetes, architecture decisions.

- S3 backend replacement ADR: 20+ criteria, 3 options, SeaweedFS selected, migration plan for ~8 TiB.
- Kubernetes readiness audit of 15 repositories: 20+ blockers turned into platform team backlogs.
- RCA of a deployment failure on a new OS (readdir() order on ext4 vs. XFS); OS support policy with a load-testing gate.
- Object storage audit (18 buckets, 400+ GB): identified up to 180 GB of reclaimable space.
- Infrastructure for agentic software development (pilot).

Head of Managed Services

2024 — 2026

ITGLOBAL.COM (ITG group), Saint Petersburg

Engineering unit of 13: DevOps, SRE, Linux/Windows, databases and application services. Operating customer systems, engineering processes, managed service development.

- PostgreSQL/Patroni incident RCA; configuration moved into DCS/etcd and playbooks; health models and alerts reworked.
- Custom monitoring and alerting with a 7-minute 24/7 response SLA.
- Managed services portfolio (Monitoring, Logging, Backup, OS): SLAs, billing units, presales calculators.
- Split into DevOps / SRE / Managed Apps teams with leads; backlog debt cut from 286 to 34 items; first P&L model for the unit.

Head of IT — DevOps / SRE / Help Desk

2022 — 2024

Smart Dynamics group (legal entity: Kadam), Cyprus

- 17× fewer production incidents; −25% infrastructure and software spend.
- DevOps team and infrastructure as code; grew a 4-person team into two self-sufficient departments with their own leads.

Project Manager / Service Manager

2018 — 2021

KORUS Consulting, Saint Petersburg

9 service contracts across Russia and the CIS, up to 4–5 concurrent projects; infrastructure for a restaurant chain — 500 sites, 2,000 workstations, 2 data centers.

Technical Background

2009 — 2018

Systems administration, on-call shifts and support: Linux/Windows, monitoring, automation. In parallel — hands-on penetration testing and security assessment.

SKILLS

Architecture: Infrastructure Architecture, High Availability, Reliability Engineering, Technology Selection / ADR, Migration Planning, Capacity Planning, Platform Engineering, Distributed Systems.

Infrastructure (hands-on, often with AI agents): Linux, Docker / Compose, Ansible, Terraform, Prometheus / Grafana / Loki, Python, Bash.

Infrastructure (design and review level): Kubernetes, GitLab CI/CD, Zabbix, ELK, PostgreSQL / Patroni.

Data & Storage: S3-compatible storage (MinIO, SeaweedFS), Backup & Recovery (WAL-G, restic).

AI-Assisted Engineering: AI Agents, Agentic Workflows, MCP, Infrastructure Automation.

ADDITIONAL

- Information security since 2009: hands-on penetration testing and security assessment, DDoS protection.
- Ran an internal course for infrastructure interns at SimpleOne: six sessions with hands-on labs (Sep–Oct 2026).
- Architecture case studies with constraints, decisions and trade-offs: cv.gomanov.pro/en/cases.html