

Roman Tsyrenzhapov

Senior DevOps / SRE

High-load edge & CDN infrastructure · bare metal at scale · ClickHouse

Pattaya, Thailand (UTC+7) · Remote · Open to relocation

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SUMMARY

Infrastructure engineer with 10+ years running high-traffic ad-tech infrastructure on bare metal: a 120+ server fleet, a self-built nginx CDN with GeoDNS, a 65-node Go edge layer and a 33-node ClickHouse cluster. Ansible expert, Kubernetes/GitOps practitioner; Python, Go and PHP for services, automation and tooling. Open to full-time remote roles and long-term contracts.

EXPERIENCE

ASG — ad-tech platform (ad rotation & mediation, OpenRTB)

DevOps Engineer · Sep 2015 — present

- Own the company's Ansible codebase (top contributor, 42% of commits) managing **120+ bare-metal servers** across Hetzner and OVH.
- Run the **edge layer: 65 Go ad-server nodes** behind nginx, serving a platform with **3B+ ad impressions per day**.
- Built and operate a **self-hosted CDN on nginx** (7 nodes) with **GeoDNS** on AWS Route 53 and CloudDNS: health checks, geo-routing, IPv4/IPv6; delivers ad creatives including video (VAST).
- Tuned Linux and nginx for high load: BBR + fq, backlogs, conntrack, TIME_WAIT and buffers; reuseport, HTTP/2, HTTP/3/QUIC, TLS.
- Operate a **33-node ClickHouse cluster** (11 shards × 3 replicas, ZooKeeper) for ad-event data.
- Object storage: moved from MinIO to **Garage**, with Backblaze B2 and Cloudflare R2 as external tiers; migrated media storage to B2.
- Migrated edge storage from **SSDB to Kvrocks**; built tooling for the **PostgreSQL 16 → 17** upgrade.
- Moved DNS zones to code with **DNSControl** (Route 53 + Cloudflare); added gosec/govulncheck gates to the Go service CI.
- Also develop the product's billing domain (payouts via PayPal/Revolut, invoices, transactions, reporting) and ship my own releases through GitLab CI → Argo CD.

Independent DevOps practice — contract work for product teams and agencies

DevOps Engineer (contract) · 2017 — present

- Built an **HA k3s cluster across three Hetzner locations** (3 control planes + 4 agents) with Terraform, Argo CD and Helm; ~25 production apps.
- Run a 60+ server fleet with Ansible (23 roles); Zabbix monitoring for 67 hosts; VictoriaMetrics/Logs, Grafana, Alertmanager.
- Self-hosted GitLab with Container Registry; CI/CD for 10+ projects; DNS as code for 69+ zones (OctoDNS → Cloudflare).
- Containerized legacy systems (Bitrix24 On-Prem, PHP/Laravel) and moved databases to dedicated hosts.

Automation engineering — own products, Python / Go

Developer · 2017 — present

- Built a commercial Telegram (MTProto) automation product: account pools, proxy rotation, auto-replies.
- Maintain opentele-ng on PyPI; wrote a Telegram anti-spam bot in Go; scrapers with anti-bot handling (Playwright).
- Built MCP servers for LLM agents: Yandex APIs (91 tools), Zabbix (Go), Aviasales.

OPEN SOURCE

- **telegram-antispam** (Go · SQLite · Docker · Helm) — Self-hosted Telegram anti-spam and moderation bot: detection cascade, CAS/LOLS blocklists, Bayesian filter, optional LLM. Single static binary, Docker/Helm.
- **zabbix-ai-cli-mcp** (Go · Zabbix API · MCP) — AI-first CLI and MCP server for Zabbix: current problems, host investigation, alert triage, maintenance windows. Bounded output; no change without human approval.
- **yandex-mcp** (Python · MCP) — MCP servers for Yandex Search, Wordstat, Webmaster, Metrika and Direct — 91 tools, Claude Code plugin included.
- **opentele-ng** (Python · PyPI) — Maintained fork of opentele: converts Telegram Desktop tdata ↔ Telethon/Pyrogram sessions. Published on PyPI.
- **gpt-web-gateway** (Node.js · Playwright · Kubernetes) — OpenAI-compatible API on top of the ChatGPT web UI: chat completions, thinking modes, image generation. Runs in my k3s cluster.
- Merged upstream PR: terraform-hcloud-kube-hetzner — reduce snapper timeline limits to prevent disk fill
- Merged upstream PR: plankka — example SMTP config for the Helm chart

SKILLS

Linux & networking	Debian/Ubuntu, bare metal, Proxmox, systemd, sysctl/TCP tuning, BGP, nginx, Traefik, Caddy
CDN & DNS	nginx CDN, GeoDNS (Route 53, CloudDNS), Cloudflare, DNSControl, OctoDNS, HTTP/3
IaC & GitOps	Ansible (expert), Terraform, Argo CD, Helm
Containers	Docker, Kubernetes (kubeadm, k3s), Cilium, Velero, Vault
Data & storage	ClickHouse, PostgreSQL, MySQL, Redis, Kvrocks, Garage/MinIO, Backblaze B2, Cloudflare R2
Observability	Prometheus, VictoriaMetrics/Logs, Grafana, Alertmanager, Zabbix, Sentry
CI/CD	GitLab CI, GitHub Actions, gosec, govulncheck
Languages	Python, Go, PHP, Bash

LANGUAGES & EDUCATION

Russian — native · English — B2+ · Novosibirsk State Technical University (NSTU), Automation and Computer Engineering, 2002–2008 (incomplete)