

Aleksei Tcelishchev

Senior DevOps & AI Infrastructure Engineer *Playa del Carmen, Mexico | webomage.com*

Professional Summary

Senior Engineering Leader with 20+ years of experience architecting production-grade cloud infrastructure, distributed systems, and AI/ML platforms. Expert in transitioning legacy systems to modern, serverless, and containerized architectures on AWS and Cloudflare. Proven track record of delivering HIPAA/SOC2-compliant platforms, optimizing cloud costs by 40%+, and integrating cutting-edge LLM/RAG features into enterprise applications.

Technical Expertise

Cloud & Infrastructure

- **AWS/GCP/Azure:** Advanced architectures (EKS, GKE, AKS, Lambda, Vertex AI, VPC Peering), Cost Optimization (Spot Instances, Savings Plans).
- **Platform Engineering:** Porter.io, Heroku-to-AWS migrations, Bare-metal virtualization management on Proxmox, QEMU/KVM, OpenVZ, LXC, LXD.
- **Infrastructure as Code:** Expert in Terraform (AWS, GCP, Proxmox for bare-metal), Serverless Framework, CloudFormation, Crossplane.
- **Kubernetes:** Cluster provisioning (EKS, GKE, AKS, K3s, K0s, Talos), GitOps (ArgoCD, Flux), Service Mesh (Cilium, Istio).
- **Serverless & Edge:** Cloudflare Pages/Workers, Supabase Edge Functions, Vercel, Serverless Framework.

AI & Data Engineering

- **GCP Vertex AI:** Managed machine learning pipelines, AutoML, STT/TTS API integration.
- **RAG Architectures:** Building pipelines with Haystack, LangChain, and Supabase Vector.
- **LLM Ops:** Deploying local inference servers (vLLM, MLX), Fine-tuning pipelines.
- **Data Pipelines:** Event-driven ETL, PostgreSQL optimization, Real-time analytics.

Software Engineering & Languages

- **Python:** Expert in AsyncIO, FastAPI, Django, Data Science stack (Pandas, NumPy), and Automation scripting.
- **Rust:** Systems programming with Tokio & Axum, TUI development (Ratatui), WASM integration, and performance optimization.
- **Go (Golang):** High-concurrency microservices, CLI tool development, and efficient data processing pipelines.
- **Node.js / TypeScript:** Enterprise-grade backends (NestJS), Full-stack frameworks (Next.js, Astro), Deno Edge runtime.
- **Web3 & Blockchain:** Smart Contract interaction (web3.py, ethers.js), Node infrastructure (Ethereum, Solana), DeFi security patterns.

Security & Protocols

- **Identity:** OIDC/OAuth2 implementation, JWT management, RBAC/ABAC authorization models.
 - **Data Security:** Row-Level Security (RLS) policies, Secrets management (Vault), Encryption at rest/transit.
-

Professional Experience

Principal Infrastructure Engineer, Webomage | Remote | 2006 – Present

Founding engineer of a high-end technical consultancy delivering critical infrastructure for SaaS and heavy-industry clients.

- **Modernization:** Led the complete re-architecture of client platforms from legacy monoliths to serverless edge architectures (Astro/Svelte on Cloudflare), improving global latency to <50ms.
- **Software Development:** Engineered high-performance internal tools using **Rust** (Kubernetes TUI) and **Python** (Infrastructure automation), replacing brittle shell scripts with robust, type-safe CLIs.
- **AI Implementation:** Designed and deployed a secure, private RAG (Retrieval-Augmented Generation) system for internal documentation search using Supabase Vector and Mistral models.
- **Security:** Implemented "Zero Trust" access controls and rigorous RLS (Row-Level Security) policies for multi-tenant API backends.
- **Automation:** Built "Meta-Deployment" pipelines using Terraform and Python to orchestrate synchronous frontend/backend updates, eliminating drift.

Senior DevOps Engineer, BeeTechy LLC | Remote | 2024 – 2025

- **Migration:** Orchestrated the zero-downtime migration of production workloads from Heroku/EC2 to a Terraform-managed AWS ECS environment.
- **Optimization:** reduced monthly cloud spend by 35% through rightsizing and implementation of Auto-Scaling policies.
- **Compliance:** Hardened infrastructure to meet SOC2 Type II requirements, including centralized logging and audit trails.

DevOps & Engineering Manager, EventCartel LLC | Remote | 2018 – 2024

- **Platform Engineering:** Built a high-availability ticketing platform handling spikes of 100k+ concurrent users using AWS EKS and Redis caching.
- **CI/CD:** Standardized deployment pipelines across 15+ microservices using GitLab CI, reducing deployment time from 1 hour to 5 minutes.
- **Hybrid Cloud:** Managed hybrid workloads spanning AWS and on-premise Proxmox clusters for cost-effective rendering and data processing.

Senior Backend & Blockchain Engineer, TokensFarm / DcentraLab | Remote | 2021 – 2023

- **DeFi Infrastructure:** Developed secure backend services for a TVL \$50M+ DeFi farming protocol.
- **Reliability:** Implemented real-time blockchain event indexing and monitoring/alerting systems using Prometheus and Grafana.

Technical Projects & Open Source

- **Webomage 7 Platform:** A full-stack agency platform built on Cloudflare Pages (Frontend) and Supabase (Backend), featuring AI-driven content generation, vector search, and edge-cached delivery.
- **Solar / WatchOS:** Native Swift/SwiftUI development for Apple Watch health monitoring applications.
- **K7s:** A terminal-based UI (TUI) for Kubernetes cluster management written in Rust.

Skills

- **Languages:** Rust, Python, Go, TypeScript, Bash, SQL

- **Cloud:** AWS, GCP, Cloudflare, Proxmox
- **DevOps:** Kubernetes, Terraform, Docker, CI/CD
- **Databases:** PostgreSQL, Redis, DynamoDB, Supabase