

# Oleksii Khilkevych

## Software Engineer | Platform Engineer | Site Reliability Engineer

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Looking for SRE/SWE/Lead/x-functional position in great team where initiative can make a real difference

## Summary

Platform Engineer, SRE, DevSecOps with 9+ years designing and maintaining high-availability infrastructures with 99.9%+ uptime across cloud and on-premises environments and 20+ years of Dev experience, in contributor, manager and leadership roles. Specialized in Kubernetes, IaC automation, and observability. Proven track record managing 50+ production environments with focus on SLA/SLO compliance and incident response. Experienced in driving platform reliability initiatives, mentoring teams and leading automation efforts across hybrid cloud environments.

## Programming Languages

Python · JavaScript · TypeScript · Java, Kotlin, Groovy · Rust · Go · bash

## Experience

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|---|------------------------|-------------------|
| <b>Platform Engineer (SysOps)</b>   | DE-CIX                 | 09/2024 - Present |
| <ul style="list-style-type: none"><li>rewrote account sync tool from Active Directory (AD) to OpenLDAP in modern Python</li><li>developed DNS zone analysis tool for complicated BIND configs in Python</li><li>implemented Terraform PoC as part of wider Proxmox PoC</li><li>managed DNS, Azure, contributed to IaC, monitoring and automation</li><li>incident response and troubleshooting of multi-site global Internet Exchange (IX) setup, 24x7 on-call rotation</li></ul>   |                        |                   |
| <b>Consultant &amp; Founder (Part-Time)</b>   | Noroutine              | 09/2018 - Present |
| <ul style="list-style-type: none"><li>implemented custom Lane IdP (<a href="https://lane.id/">https://lane.id/</a>) by OpenID Spec with some extra extensions, WebAuthN support and off-device login flow (TypeScript/Fastify)</li><li>implemented cloud service interconnect (<a href="https://nail.lane.id/">https://nail.lane.id/</a>) with TCP-over-HTTP (custom WebSocket-like protocol, core idea is similar to frp reverse proxy but with a lot of extra sauce)</li><li>implemented cloud MTA (<a href="https://shovel.mx/">https://shovel.mx/</a>) for special mail processing and archiving</li><li>implemented weird cross-platform service discovery mechanism for clients with limited DNS capabilities</li><li>many interesting projects (LIR, anycast DNS, IoT, CDN, grey noise detection, eBPF, if to recall few spotlights)</li><li>built complete infrastructure from 0 to 1 (baremetal servers with proxmox + vms and few k8s clusters on top), everything automated with stacks of multiple tools</li><li>implemented GDPR compliance and processes</li><li>upskilled three junior recruiters in GDPR and tech</li></ul> |                        |                   |
| <b>Platform Engineer (Big Data)</b>   | Allianz                | 10/2019 - 12/2023 |
| <ul style="list-style-type: none"><li>collaborated with several teams to migrate 50+ Big Data environments to Azure/AKS Cloud Infrastructure</li><li>wrote NFS and LDAP metrics exporters in Go for Prometheus as per custom requirement</li><li>maintained custom-branded BinderHub fork with internal extras and patches (Python)</li><li>designed and implemented multi-tenant highly-available containerized monitoring solution for 50+ Allianz OE Big Data Analytics environments with alerting and long-term storage running on Nomad and later Azure</li><li>was go-to person for several key areas, like Elasticsearch, JupyterHub, BinderHub, Development PoCs</li><li>SLA/SLO management, incident response, troubleshooting and 24x7 on-call rotation</li><li>proactively prepared the team for COVID lockdown</li></ul>  |                        |                   |
| <b>Principal DevOps Engineer</b>  | ACI Worldwide / PAY.ON | 09/2015 - 10/2019 |
| <ul style="list-style-type: none"><li>built and mentored DevOps team from 0 to 1, put all my heart into people, tooling and culture</li><li>reduced release cycle, and increased releases frequency from per week to multiple times a day</li><li>implemented DR tooling in Go for payment platform (with &gt;300 tps) with automatic traffic failovers and DR exercises, saved \$200k first week it was deployed, also wrote UltraDNS/Pingdom management CLI in Go</li><li>modernized ancient tech stack to Git, Gradle, Jenkins</li><li>was driving weekly code retreats and PoCs on k8s, containerization, virtualization, automation, hackathons, Git, Ansible, Docker Swarm, and more</li></ul>  |                        |                   |

## Education

Igor Sikorsky Kyiv Polytechnic Institute  
MS in Systems Analysis, Computer Science

Kyiv Ukraine  
2003 - 2009

## Skills

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- **Languages:** Rust, Go, Python, TypeScript, JavaScript, Java, Kotlin, Bash, SQL
- **Cloud & Platforms:** AWS, GCP, Azure, Kubernetes, Docker, Nomad, Helm, ArgoCD, Proxmox, VMware
- **Infrastructure as Code:** Terraform, Ansible, Packer, GitOps, pyinfra
- **Observability & Monitoring:** Prometheus, Grafana, ELK Stack, Jaeger, OpenTelemetry, InfluxDB
- **CI/CD & DevOps:** GitLab CI, GitHub Actions, Jenkins, ArgoCD, Harbor, Nexus, Artifactory
- **Databases & Storage:** PostgreSQL, Redis, MongoDB, Elasticsearch, ClickHouse, Ceph, MinIO, lmdb
- **Networking:** BGP, OSPF, VLAN, VxLAN, DNS (PowerDNS, BIND), TCP/IP, IPSec, Wireguard, SD-WAN
- **Security & Identity:** OAuth/OpenID, LDAP, mTLS, HashiCorp Vault, PKI/TLS, FreeIPA, Active Directory
- **Big Data & ML:** Spark, Airflow, Jupyter, vLLM, RAG, vector embeddings, CUDA
- **Message Queues:** Kafka, RabbitMQ, NATS
- **Programming:** TDD for cloud native and microservice architectures
- **Human Languages:** English (fluent), German (B2), Ukrainian (native)

## Certifications & Training

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- Kubernetes (self-certified via production experience managing 5+ clusters the hard-way for a decade)
- Infrastructure as Code (Terraform, extensive production use)
- Site Reliability Engineering (Google SRE principles, production implementation)
- TOEFL (score 105)

## Selected Projects

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- **kekse** - specialized KV store for PASETO/Biscuit/JWT tokens, slowly going as a challenge to learn Rust
- **AI bot** - my personal AI assistant that inflates my energy bill
- **Lane IdP** - IdP by spec with service discovery, WebAuthN, custom off-device auth flow support
- **Nail** - secure global service/app interconnect that uses Lane IdP
- **Shovel MX** - Mail Transfer Agent (MTA) that delivers to Microsoft 365, Google Workspace and local archive
- **Scribe** - MJML template microservice
- **Disco** - cross-platform method for DNS-based service endpoint discovery that works when SRV records don't
- **nrtm.me** - URL-shortener using Cloudflare Workers
- **tripwire** - port-scan/DDoS internet radar
- **dnsconfig** - custom dns server to use DNS as distributed KV store
- **rustlings-ua** - translation of Rustlings, <https://github.com/noroutine/rustlings-ua>
- **terraform-eui64** - EUI64 calculator as per RFC4291, <https://github.com/noroutine/terraform-eui64>
- **grit** - Grafana Dashboard Generator, <https://pypi.org/project/noroutine-grit/>

## Professional Development & Lab Environment

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- LIR Maintainer (de.noroutine)
- 18 supermicro servers, 2 JBODs, 1 GPU node for LLMs
- HV: VMWare VSAN, Proxmox with Ceph/NFS
- Containers: 5 vanilla k8s clusters with istio and some sporadic docker nodes
- Networking: 100/25/10Gbit of FortiGate, Arista, Mikrotik gear
- bird for BGP, wireguard/IPSec for VPNs
- PowerDNS, Postfix and Exchange for basics, OpenLDAP and Keycloak for accounts
- cert-manager and certbot for public certificates, maintain own multi-level internal CA
- Nexus OSS for repository and GitLab for Git and CI/CD/IaC
- Terraform, Ansible, pyinfra, ArgoCD for IaC
- all k8s clusters are peered with core routers via BGP
- most recently migrated everything to IPv4/IPv6 dualstack setup, including K8s too!

Most coding and CI/CD activity is in private GitLab, but I do sync some to GitHub

- **infra-setup** - how I build my infra, <https://github.com/turbovillains/infra-setup>

*Prior Experience omitted: 13 years fullstack development (Java, web technologies) across various consulting engagements (2002-2015)*

*This resume was prepared with [ohmycv.app](#)*