

Oleksii Khilkevych

Software Engineer | Platform Engineer | Site Reliability Engineer

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Looking to fill SRE/SWE/Lead/x-functional position in great team with potential for growth

Summary

Platform Engineer with 9+ years designing and maintaining high-availability infrastructure across cloud and on-premises environments. 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 and leading automation efforts across hybrid cloud environments.

Experience

Platform Engineer (SysOps)	DE-CIX	09/2024 - Present
<ul style="list-style-type: none">rewrote account sync tool from AD to OpenLDAP in modern Pythondeveloped DNS zone analysis tool for complicated BIND configs in Pythonimplemented Terraform PoC as part of wider Proxmox PoCmanaged DNS, Azure, contributed to IaC, monitoring and automationincident response and troubleshooting of multi-site global IX setup, 24x7 on-call		
SWE / SRE / Founder	Noroutine	09/2018 - Present
<ul style="list-style-type: none">implemented custom Lane IdP (https://lane.id/) by OpenID Spec with some extra extensions, WebAuthN support and off-device login flow (TypeScript/Fastify)implemented cloud service interconnect (https://nail.lane.id/) with TCP-over-HTTP (custom WebSocket-like protocol, core idea is similar to frp reverse proxy but with a lot of extra sauce)implemented cloud MTA (https://shovel.mx/) for special mail processing and archivingimplemented weird cross-platform service discovery mechanism for clients with limited DNS capabilitiesmany interesting projects (LIR, anycast DNS, IoT, CDN, grey noise detection, eBPF, if to recall few spotlights)built complete infrastructure from 0 to 1 (baremetal servers with proxmox + vms and few k8s clusters on top), everything automated with stacks of multiple toolsmany more non-tech achievements		
Platform Engineer (Big Data)	Allianz	10/2019 - 12/2023
<ul style="list-style-type: none">migrated 50+ Big Data environments from private cloud to Azure/AKS Cloud Infrastructurewrote NFS and LDAP metrics exporters in Go for Prometheus as per custom requirementmaintained custom-branded BinderHub fork with internal extras and patches (Python)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 Azurewas go-to person for several key areas, like Elasticsearch, JupyterHub, BinderHub, Development PoCsSLA/SLO managementproactively prepared the team for COVID lockdown		
Principal DevOps Engineer	ACI Worldwide / PAY.ON	09/2015 - 10/2019
<ul style="list-style-type: none">built DevOps team from 0 to 1, people, tooling and cultureimplemented DR tooling in Go for platform monitoring, automatic traffic failovers and DR exercises, saved \$200k first week it was deployed, also wrote UltraDNS/Pingdom management CLI in Gomodernized ancient tech stack to Git, Gradle, Jenkinswas driving weekly code retreats and PoCs on k8s, containerization, virtualization, automation, hackathons, Git, Ansible, Docker Swarm, and more		
Senior Software Engineer	Contract/Consulting	2002 - 2015
<ul style="list-style-type: none">fullstack development in various companies and projects		

Programming Languages

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

Education

Igor Sikorsky Kyiv Polytechnic Institute	Kyiv Ukraine
MS in Systems Analysis, Computer Science	2003 - 2009

Highlights

- Highly successful datacenter high-availability setup for global payment company
- Infrastructure migrations for leading payments services provider in Germany
- Extensive development experience as Java, JavaScript and Golang developer
- Wrote projects in Java and Go, plugins and dynamic inventories for Ansible in Python, plugins for Jenkins in Java, plugins for Vagrant in Ruby, tools in Perl+GTK
- Performed CI/CD infrastructure setup and maintenance from code for various setups, including Jenkins, Gerrit, Artifactory, Nexus and GitLab
- Hands-on experience with containers on Nomad, Kubernetes in Docker, rkt and cri-o runtimes
- Hands-on experience with automation tools (Puppet, Ansible, Terraform, Vagrant, Packer)
- I have worked with most cloud infrastructures (OpenShift 2/3, AWS, GCP, Bluemix, Heroku, CloudFoundry) and on-premises (VMWare, OpenStack)
- Hands-on experience with development processes and tools like code reviews, git flow, as well as most development build tools
- Database Administration (PostgreSQL in HA configurations with streaming replication, pgLogical or BDR)
- Performed virtualization infrastructure setup and maintenance from code(VMWare/Ansible/Terraform) and using my own templates baked with packer
- Hands-on experience with all infrastructure backyard like load balancers, proxy servers, DNS servers, SMTP, custom packaging
- Expert in Digital Certificates, maintained multi-level PKI and worked with custom OIDs among other things)
- Experience with automating HSMS
- Constantly trying new things and running my own lab infrastructure for experiments
- Trained several teams on various topics, like Git, Gerrit, GitOps, DevOps
- Lead of several teams
- Experience working in PCI-DSS regulated environment
- Experience with GDPR implementation in several companies

Skills

- Languages: Rust, Golang, Java, Groovy, Kotlin, Python, TypeScript, JavaScript, SQL, Bash
- Web Frontend: JavaScript, TypeScript, Vue, React, CSS/SASS, vanilla.js
- Queues: Kafka, RabbitMQ, NATS, Mosquitto
- LLM: vLLM, RAG, embeddings, Mulvis, chromadb, MCP
- Backend: Go, node.js, Java Spring, Hibernate
- Databases: lmdb, PostgreSQL, Mongo, Redis, Elasticsearch, Consul, ClickHouse
- Platforms: AWS, GCP, Azure, VMWare, Proxmox, OpenNebula, KVM/openvirt, bare-metal
- Automation/CI&CD: Ansible, pyinfra, Puppet, Terraform, Jenkins, GitLab CI, GitHub Actions
- Code Repo/Code Review: bare Git, GitHub, GitLab, Gerrit
- Artifact Repositories: Nexus, Artifactory, Harbor,
- Containers: Nomad, K8s, Helm, ArgoCD, GitOps, Docker, Docker Swarm, rkt, CRI-O, LXC
- Monitoring/Observability: Pingdom, Prometheus, InfluxDB, ELK, Grafana, Jaeger, OpenTelemetry
- Service Discovery: etcd, Consul
- DevSecOps: HashiCorp Vault, Ansible Vault, istio, GnuPG
- Big Data Analytics: Spark, Luigi, Jupyter, ELK, Airflow, CUDA
- CDN/Traffic Management: CloudFlare, Akamai, F5 GTM, anycast DNS
- Backbone Networking: LAN/WAN routing, NAT, L2-L7 balancing, firewalls
- Core Networking: VLAN, VxLAN, GRE, BGP, OSPF, VRRP
- Network Protocols: TCP/IP, HTTP, DNS, LDAP, NTP, RADIUS, SMTP, SPF, DMARC, DKIM
- VPN: client-to-site and site-to-site IPSec, L2TP, OpenVPN, Wireguard, SD-WAN
- Centralized IDM: PAM, Kerberos V, OAuth/OpenId, LDAP, RADIUS/TACACS, mTLS, FreeIPA, Active Directory
- PKI: Root and Intermediate CA management, TLS1.2/1.3, OCSP, custom OID fields
- SAN: iSCSI (targetcli, 3par, Isilon), RDMA/RoCE, NAS: NFSv3/v4, Samba, DAS: SAS/SCSI, all-flash arrays, RAID0/1/5/6/10
- Storage Clusters: vSAN, ScaleIO, DRBD, GlusterFS, Ceph, Minio
- Troubleshooting: System/Storage/Network performance, tcpdump

Human Languages

- English (proficient with an accent), German (B2), Ukrainian (native)

My Selected Projects with various degrees of activity

- **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 with extra functionality like service discovery, webauthn, custom off-screen support
- **Nail** - secure global service/app interconnect that uses Lane IdP
- **Shovel MX** - MTA with LLM support
- **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
- **terraform-eui64** - EUI64 calculator as per RFC4291
- **grit** - Grafana Dashboard Generator

My Home Lab/DataCenter Stack

I am homelabber since many years and use it to keep myself fresh and try out whatever i want. Not everything is powered on of course all the time, but thats where i keep my hands dirty

LIR Maintainer (de.noroutine), my homelab has 100Gbit networking

- 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, Posfix 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
- **upstream** - my abuse of dependabot for keeping it up to date

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