

ALINA KAUN

DevOps & Network Engineer

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TECH

Linux



- Administration
- Custom hardened kernel builds
- Attack surface reduction
- Systemd orchestration
- Scripting with Bash and Nushell

Networking



- Routing: BGP, Babel, OSPF
- Transport: TCP, UDP, QUIC
- Encryption: TLS, WireGuard, OpenVPN
- Application: HTTP, DNS, DHCP, SSH
- Configuration: sysctl, systemd, bird2
- Authorization: OIDC, LDAP, OAuth2
- Firewall: nftables, iptables
- IPv6: NAT64, SLAAC

Infrastructure as Code



- NixOS
- Ansible
- Terraform

Monitoring & Alerting



- Grafana
- AlertManager
- Prometheus, Zabbix, VictoriaMetrics

VCS & CI/CD



- Git, GitLab, GitHub
- Jenkins, Nexus, Hydra
- GitHub Actions, GitLab pipelines

LANGUAGES

German: **Native**

English: **Advanced / C1**

Spanish: **Basic / A2**

French: **Basic / A2**

WORK

Amazon Web Services |

2025, Q1 – ongoing

Berlin

- building the European Sovereign Cloud
- handling Managed Operations for all departments of AWS
- maintaining Amazon Dedicated Cloud region build tools
- working across global teams in a fast paced environment

SpectrumOS/NLnet |

2025, Q1

Berlin & Remote

- fixing dependency regressions in the NixOS staging cycle
- wide range of technologies: varying build systems, languages and designs
- maintenance of the Nix Operating System and its CI/CD

VOLUNTEERING

NOC at the Gulaschprogrammierenacht |

2023, ongoing

Karlsruhe

- designing a network topology and infrastructure for 5000+ attendees
- Juniper MX & EX, Mellanox Cumulus and Aruba APs
- JuniperOS, Proxmox, Ansible, Grafana, Kea, Prometheus, Netbox
- vxlan, VRF, BGP, SDN, ZTP, DHCP, DNS, SIIT-DC-2xlat

PROJECTS

Hobby Infrastructure

2017, ongoing

- AS212744 peering with BGP, IPv6-Anycast, pioneer of DNS over QUIC
- writing my own hypervisor-framework
- building hyperscaling cloud infrastructure for fun
- colocations in Düsseldorf, Wolfsburg and Berlin
- build farm based on Kubernetes, Ceph, Jenkins, Nexus and Forgejo

NixOS IaC collections |

2023, ongoing

- algorithms for auto-scaling and internetworking server clusters
- generating a secure WireGuard mesh network with PSK-overlay & Babel
- custom hardened Linux kernel with focus on security and performance
- automation and isolation system as alternative to systemd-nspawn
- improving the NixOS module system (plugin system and better syntax)