

# ALINA KAUN

## DevOps & Network Engineer

@ alina@duck.com

+49 0176 26181187

Berlin, Germany

alina

alina.cx

## 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, OVPN
- Application: HTTP, DNS, DHCP, SSH
- Configuration: sysctl, systemd, bird2
- Authorization: OIDC, LDAP, OAuth2
- Firewall: nftables, iptables
- IPv6: NAT64, SLAAC

### Monitoring & Alerting



- Grafana
- AlertManager
- Prometheus, Zabbix, VictoriaMetrics

### Infrastructure as Code



- NixOS
- Ansible
- Terraform

### 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, ongoing

Berlin

- building the European Sovereign Cloud
- handling Managed Operations for all departments of AWS
- EC2, S3, Dynamo, Lambda, and Bedrock
- working across global teams in a fast paced environment

### SpectrumOS/NLnet |

2024, ongoing

Berlin & Remote

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

## VOLUNTEERING

### NOC at the Gulaschprogrammernacht |

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)