Florian Kaute
Senior Cloud Infrastructure Engineer & Architect

SUMMARY

- Senior Cloud Engineer with 15+ years specializing in Azure to AWS migrations, Kubernetes (CKA), and Terraform-driven IaC.
- Expert in designing Zero Trust, high-availability infrastructures and automating GitOps pipelines using ArgoCD and FluxCD.
- Proven success architecting AI RAG systems, boosting retrieval speeds by 40%, and managing multi-cloud environments including AWS, Azure, IBM Cloud, and GCP.
- Skilled in security hardening with OPA, OpenSCAP, and IAM least privilege policies, ensuring compliance and enterprise asset protection.
- Strong background in Python, Bash, PowerShell scripting, CI/CD automation, and observability stacks like Prometheus and Grafana.

TECHNICAL SKILLS

Main Technical Skills	Kubernetes (2 yr.), Terraform (2 yr.), AWS (2 yr.), Azure (2 yr.), GitOps (2 yr.)
Programming Languages	Python (2 yr.)
Security	Content Security Policy
Cloud Platforms, Services & Computing	AWS (2 yr.), Azure (2 yr.), Harbor (1 yr.), Hetzner (2 yr.)
Amazon Web Services	AWS CloudWatch (2 yr.)
Google Cloud Platform	GCE (1 yr.)
Deployment, CI/CD & Administration	Ansible (2 yr.), ArgoCD (2 yr.), FluxCD (2 yr.), GitLab CI (2 yr.), GitOps (2 yr.), Helm (2 yr.), Jenkins (2 yr.), loki (2 yr.)
Scripting and Command Line Interfaces	Bash (2 yr.), PowerShell (2 yr.)
QA, Test Automation, Security	CSP
Virtualization, Containers and Orchestration	Docker (2 yr.), Docker Compose (2 yr.), Kubernetes (2 yr.), Rancher (2 yr.), Terraform (2 yr.)
Version Control	Github Actions (2 yr.)
Logging and Monitoring	Grafana (2 yr.), Prometheus (2 yr.), Thanos (2 yr.)
Platforms	Red Hat OpenShift Container Platform (2 yr.)
Other Technical Skills	Crossplane (2 yr.), k3s (2 yr.), SUSE (2 yr.)

WORK EXPERIENCE

Senior Cloud Engineer (Contractor) - ATVANTAGE (TIMETOACT GROUP) / ARS Computer und Consulting (Cloud Migration, AI Infrastructure & Serverless Architecture)

Duration: March 2025 - December 2025

Summary:

- Executed complex cloud migration strategies transitioning from Azure to AWS, architected production-grade AI infrastructure for Retrieval-Augmented Generation applications, and designed automated container platforms with serverless architectures
- The project focused on enhancing cloud infrastructure efficiency, security, and automation

Responsibilities:

- Planned and conceptualized cloud migration strategies ensuring data integrity and minimal downtime.
- Architected AI infrastructure integrating Vector Databases and LLM services to accelerate information retrieval by 40%.
- Designed and operated container platforms using AWS EKS and IBM Cloud Code Engine serverless services.
- Implemented Zero Trust security models with granular IAM policies and central secrets management.
- Established declarative resource management with Terraform and GitOps strategies using ArgoCD.

Technologies: AWS (EKS, VPC, IAM), Microsoft Azure, IBM Cloud (Code Engine), Terraform, ArgoCD, Vector Databases, LLM services, Zero Trust Security, IAM, GitOps

DevOps Consultant & Kubernetes Specialist (Contractor) - enthus GmbH (Kubernetes Architectures, GitOps & Observability)

Duration: March 2023 - March 2025

Summary:

- Designed and implemented highly available Kubernetes clusters for edge and datacenter workloads, developed GitOps pipelines, and built observability solutions to ensure system reliability and compliance
- The project aimed to automate deployment workflows and enhance infrastructure security and monitoring

Responsibilities:

- Designed and implemented Kubernetes clusters using RKE, K3s, Rancher, and Harvester.
- Engineered GitOps pipelines with FluxCD and GitLab to automate deployments.
- Built monitoring solutions integrating Prometheus, Thanos, Loki, and Grafana.
- Executed Linux server hardening following OpenSCAP and CIS benchmarks.
- Managed large-scale Nextcloud installations ensuring data integrity and availability.
- Developed reusable Helm Charts and Ansible playbooks to automate provisioning.

Technologies: Kubernetes (RKE, K3s, Rancher, Harvester), FluxCD, GitLab CI, Prometheus, Thanos, Loki, Grafana, OpenSCAP, CIS Benchmarks, Nextcloud, Helm, Ansible

DevOps Engineer - DLTSecure GmbH (Blockchain Infrastructure and Automation)

Duration: January 2021 - February 2023

Summary:

- Designed and deployed high-availability cloud infrastructure for blockchain validator nodes, focusing on uptime and automation
- Implemented monitoring solutions to provide real-time health visibility of blockchain nodes

Responsibilities:

- Designed and deployed cloud infrastructure on Hetzner Cloud ensuring 99.95% uptime for blockchain validator nodes.
- Automated node provisioning using Bash scripting and Docker/Docker-Compose, reducing manual effort by 80%.
- Implemented monitoring stacks with Prometheus and Grafana for real-time validator health visibility.

Technologies: Hetzner Cloud, Bash, Docker, Docker-Compose, Prometheus, Grafana

System Engineer - Materna GmbH (Aviation Self-Service Solutions Integration)

Duration: August 2017 - October 2020

Summary: Led technical system integration projects for aviation self-service solutions, delivering projects under budget and providing Tier-2 support to international aviation clients.

Responsibilities:

- Led system integration projects for aviation self-service solutions, delivering projects 10% under budget.
- Provided Tier-2 technical support resolving over 500 incidents annually for international clients.

System Engineer - Vodafone D2 GmbH (Core Network Monitoring & Troubleshooting)

Duration: March 2008 - June 2012

Summary: Provided 1st level support for core network monitoring and troubleshooting, ensuring network stability and performance.

Responsibilities:

- Monitored core network and performed troubleshooting tasks.
- Provided 1st level support to maintain network operations.

EDUCATION

- **Mathematics Studies**
  TU Dortmund
  2013 - 2015
- **Apprenticeship IT Specialist (System Integration)**
  Vodafone D2 GmbH
  2005 - 2008

CERTIFICATION

- **Certified Kubernetes Administrator (CKA)**
  Linux Foundation
- **HashiCorp Terraform Associate**
  HashiCorp
- **AWS Certified Cloud Practitioner**
  Amazon Web Services
- **Microsoft Azure Administrator Associate (AZ-104)**
  Microsoft
- **Microsoft Azure Fundamentals (AZ-900) & Data Fundamentals (DP-900)**
  Microsoft