

Lennart Krauch

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Cloud Platform / Kubernetes Engineer building Cloud-Native Infrastructure with Kubernetes, Terraform, and Lots of Coffee.



Education

 Hochschule Karlsruhe – University of Applied Sciences
A BACHELORS OF SCIENCE IN COMPUTER SCIENCE

DE

2020 - 2025

- Thesis: Measuring and Optimizing CO2 Emissions of a Kubernetes-based Cloud Application

Professional Experience

 inovex GmbH
CLOUD PLATFORM ENGINEER

Karlsruhe, DE

Mar. 2025 - Present

- Building a Database-as-a-Service (DBaaS) platform on Kubernetes supporting Postgres, SQLServer, and MongoDB.
- Developing internal Kubernetes Operators in Go to automate database lifecycle management and serving logic.
- Building additional internal tools and supporting operators
- Modularizing Terraform infrastructure and implementing monitoring for large-scale database serving across multiple worker clusters.

Go Kubernetes Operators DBaaS PostgreSQL Terraform Monitoring

WORKING STUDENT (CLOUD PLATFORM ENGINEERING)

Dec. 2024 - Feb. 2025

- Ensured a seamless handover of the scrumlr.io infrastructure and operations to colleagues.
- Maintained operational stability of the app during the transition period.

Kubernetes FluxCD Knowledge Transfer Technical Documentation

BACHELOR THESIS

Aug. 2024 - Nov. 2024

- Topic: Measuring and Optimizing CO2 Emissions of a Kubernetes-based Cloud Application.
- Analyzed the carbon footprint of cloud-native infrastructure and implemented optimization strategies.

GreenIT Prometheus Optimization

WORKING STUDENT (CLOUD PLATFORM ENGINEERING)

Mar. 2023 - Jul. 2024

- Developed and maintained Kubernetes infrastructure for scrumlr.io, including cluster deployment automation and Git versioning with FluxCD.
- Set up high-availability Postgres clusters and backup infrastructure.
- Implemented monitoring components including Grafana dashboards and Prometheus alerts.
- Developed infrastructure for AI model serving using BentoML for text and image generation models.
- Mentored development teams in infrastructure usage and DevOps practices.

Kubernetes Terraform FluxCD GitLab CI/CD Prometheus Grafana BentoML OpenStack

IT ENGINEERING & OPERATIONS INTERN

Sept. 2022 - Feb. 2023

- Supported the development of ParrotApp, a generative AI service platform.
- Containerized solutions using GitLab pipelines with Kaniko.
- Implemented monitoring and alerting systems.
- Assisted in GPU infrastructure setup for AI model deployment.

Python Docker GitLab Prometheus Grafana BentoML

Certificates

2023 LFS458: Kubernetes Administration, The Linux Foundation
2023 Scrum Foundations Certificate, Scrum.org

Skills

Languages	German (Native) English (Fluent)
Programming	Python Bash Go
Cloud	Kubernetes OpenStack Azure
DevOps Tools	Terraform GitLab CI/CD FluxCD GitHub Actions Helm BentoML
Monitoring	Prometheus Grafana VictoriaMetrics influxDB
Databases	PostgreSQL Sqlite
Development	Git VSCode Vim Zed
Methodologies	Scrum Agile Development

