

# Lennart Krauch

 Lennart01 |  Lennart@krauch.net |  lennart-krauch |  B.Sc.

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



## Education

 **Hochschule Karlsruhe – University of Applied Sciences**  
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

