

Lukas Haeussler

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EXPERIENCE

Data Engineer & Full-Stack Developer

May 2026 – Present

Interdisciplinary Project → Working Student at Radical Dot

Munich, DE

- Designed and built a production-grade **Python** (FastAPI) data pipeline ingesting experiment data from **SharePoint** via the **Microsoft Graph API** into **Supabase Postgres**, replacing a legacy Streamlit pipeline.
- Owned the full lifecycle: automated tests, **CI**, a fail-closed **Row-Level Security** access model, and continuous deployment to **Railway** and **Vercel**.
- Built a **Next.js/React** dashboard (**Plotly**) and offset limited team capacity with **AI coding workflows** such as agentic tools and automated code review.

Software Engineer (Cloud & DevOps)

May 2025 – Aug. 2026

Intern → Working Student at Rohde & Schwarz

Munich, DE

- Enabled the **commercialization** of an internal platform by decoupling it from Azure (self-hosted **MongoDB**, **NATS**) and standardizing external delivery via **Helm charts** and **Zarf** for air-gapped **OpenShift** deployments.
- Developed features across the full product cycle: **10 C#/.NET** microservices, an **Angular/React** frontend, cloud infrastructure, and **Keycloak** authentication (PKCE).
- Shipped production releases via **Helm/Kubernetes** GitOps and contributed to a central **GitLab CI** library.
- Built a **Python** CLI that generates **SBOMs** and license attributions with Trivy, used by several teams.
- Drove early adoption of **Cursor** as a department pilot: custom rules, prompts, and agentic team workflows.

Container Security & DevOps Engineer

Nov. 2024 – Feb. 2025

Working Student & Bachelor Thesis at Siemens

Munich, DE

- Designed a runtime security architecture with **Google ctrdac** and **OPA** in a Bachelor thesis on admission control, enforcing compliance on Docker containers for Industrial Edge.
- Reached a **100% detection rate** for critical risks such as privileged mode with custom **Rego policies**, evaluated via **Terraform/Ansible**.
- Optimized an internal Container Hardening Service generating secure, rootless container images on demand, shifting security left in the **CI** pipeline.

RESEARCH

Co-First Author – Empirical Study on Test Flakiness

Oct. 2025 – Present

Research (targeting ICSE 2027) at TUM, with BMW & Univ. of Passau

Munich, DE

- Co-first-authored an empirical study (targeting **ICSE 2027**) classifying the origin of **2,661 fixed flaky tests**, an order of magnitude beyond prior work.
- Uncovered the "**Fix-Origin Gap**" (30.8% of production-code fixes actually originate in the test) via a **Python/pandas Mining Software Repositories** pipeline, dual-reviewer labeling, and inferential statistics.

TECHNICAL SKILLS

Programming: **C# (.NET)**, **Java**, **Python**, TypeScript (Angular, Next.js/React), SQL, Bash

Cloud & DevOps: **OpenShift (K8s)**, **Helm**, **Docker**, **GitLab CI**, ArgoCD, Zarf, Azure, Terraform

Backend & Data: **PostgreSQL**, **MongoDB**, **NATS**, FastAPI, pandas, Keycloak

Security & Concepts: **CI/CD**, **Distributed Systems**, **Agentic AI Development**, Kubernetes Security, OPA/Rego

Languages: German (Native), English (C1), French (B2)

EDUCATION

Technical University of Munich

Munich, DE

M.Sc. in Informatics

Oct. 2025 – Present

- Completing a two-semester exchange year at **Universitat Politècnica de Catalunya (UPC)**, Barcelona, focusing on **Machine Learning**, **Deep Learning**, and **Big Data Management** (Sep. 2026 – Jul. 2027).

Technical University of Munich

Munich, DE

B.Sc. in Informatics, Minor in Economics (Grade: 1.9)

Oct. 2021 – Oct. 2025

- Exchange semester at **SIIT**, Bangkok, focusing on **AI** and **Machine Learning** (2023).