

Employment

Software Engineer/DevOps, **CERN** **since Sep 2022**
Technical Student

- Developing the Virtual Research Environment, a CERN-developed analysis platform serving the needs of European scientific communities.
- Contributing to other major open source projects at CERN, including REANA (a platform for reproducible research) and Rucio (software for large-scale scientific data management at ATLAS).
- Writing of my master's thesis on the design of a future IT architecture for analysis systems in high-energy physics.

Site Reliability Engineer, **EDEKA Digital** **May 2021 – Aug 2022**
Working Student

- Developed GCP/Azure cloud infrastructure with a strong focus on IaC and CI/CD for a large retail inventory management application.
- Designed a cloud operating model for the new cloud infrastructure and helped build a new site reliability engineering team.

Consultant, Dual Student **EY** **Sep 2017 – Apr 2021**

- Contributed to developing a web-based IT audit tool for ERP systems based on SQL (Bachelor's thesis).
- Provided IT security advice and audits to industrial clients
- Three-month internal internship in Shanghai, China to support cross-country efforts

IT-Administrator, Full-Time & **Kern-Liebers** **Sep 2012 – Aug 2017**
Apprenticeship

- Oversaw the set-up of IT infrastructure and systems for a new subsidiary in Querétaro, Mexico (one-year assignment).
- Administered various Linux and Microsoft-based systems for data centre virtualisation, storage management and networking.
- Management and maintenance of switches, routers and firewalls for the global corporate network.

Education

Mannheim, Germany **Mannheim University of** **Sep 2021 – approx. Sep 2023**
Applied Sciences

- M. S. in Computer Science (major Software Engineering), Current Grade Average: 1.0
- Coursework: Autonomous robotics (ROS), DevOps, machine learning (Python), reverse engineering (C, assembler), big data engineering, design thinking

Leipzig, Germany **Leipzig University** **Oct 2020 – Aug 2021**

- Various courses in physics and mathematics (gap year)

Mannheim, Germany **Baden-Württemberg** **Oct 2017 – Sep 2020**
Cooperative State University

- B. S. in Business Informatics, Finale Grade Average: 1.9
- Coursework: Programming (Java), distributed systems, networking, databases, algorithms and other fundamental concepts, economics and business administration

Technical Projects and Additional Experience

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- **Radar Object Detection:** Radar object detection with Kalman Filter and DBSCAN Algorithm (2021/22)
 - **Development of an Autonomous Robot:** Development of an Autonomous Robot for Detecting and Collecting Objects (2022)
 - **Ruby Workshop:** Organization of a programming workshop for Ruby (2021/22)
 - **Lightning Talk JupyterCon:** Lightning Talk about the Virtual Research Environment at CERN (2023)

- **Student Speaker** at Baden-Württemberg Cooperative State University (2018 – 2020)

Skills and Languages

- Git, Python, Linux, Kubernetes, Docker, YAML, Helm, IaC (Terraform), GitOps (Flux and other cloud-native tools), CI/CD (GitHub Actions), cloud computing (GCP, Azure), SQL (PostgreSQL), Jupyter, ROS, Dask, Spark, Hadoop and other tools in this context.
- German (**native**), English (**fluent**), Spanish (**conversational**), French (**basic**)