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# Jakob Endler

## Data Engineer

linkedin.com/in/jakobendler  
Portfolio | endler.tech

Highly driven Data Engineer with 4 years of experience  
**Areas of expertise:** SQL, Python, ETL, Containerization, GCP

### WORK EXPERIENCE

#### Data Engineer

Data Analytics @ DHL

04/2022 — ongoing

Python, SQL, Terraform, GCP

- I am currently employed as a Data Engineer in DHL's IT Services Division, where i setup **data intensive applications** and pipelines.
- Currently working on a Project on Google Cloud Kubernetes Engine to setup automated data pipelining (Redpanda, ClickHouse, Terraform, Kubernetes).
- Managed to move to production within 6 months of onboarding, with **no prior experience** using GCP, Kubernetes or Terraform.
- Scaled up to a throughput of **1.5mln transactions per Hour**, with 30bln ingested records in total.
- **Sped up queries** by an average of **600%** in comparison to the prior elasticsearch-based solution.

#### Data Engineer,

Network Automation @ Deutsche Telekom

02/2020 — 03/2022

Kafka, ELK, Docker

- Tasked with building the back-end infrastructure for an anomaly detection system for our OpenStack-Instance.
- Chose Apache Kafka to stream logs into Logstash, which filtered and ingested the data into ElasticSearch, both of which were deployed using Docker.
- Achieved **near perfect data-completeness**, and successfully on-boarded two projects onto the architecture.
- Based on this architecture, we created a anomaly detection and root cause analysis tool achieving over **92% correct fault detection**.

#### Software Developer,

5G Network Planning @ Deutsche Telekom

09/2018 — 02/2020

Python, SQL

- My role in the Network Planning Department of Deutsche Telekom was to design and implement workflows to model the technical performance of 5G networks. I mostly worked with Python & SQL.
- Implemented an optimization model for the 5G Network Rollout, **saving 45mln Euro per year** and **speeding up the planning process by 4x** compared to the prior (manual) solution.
- Optimized internal database modeling heavily, achieved a size reduction of 45% by applying normalization best-practises.

### EDUCATION

Bachelor of Engineering in Computer Science, HTWK Leipzig

03/2022

- Bachelor's Thesis: Development of a 5G network simulator to estimate the MU MIMO capability of randomly distributed users. [Final Grade 1.7]

### TECHNICAL SKILLS

#### Technical Skills

#### Programming

#### Other

Linux, Google Cloud, Database-Management, Kubernetes, Software Engineering, Data Streaming

Python, Docker, SQL, ELK-Stack, Git, Terraform

Proficiency in German & English, Entrepreneurship, Certification for Apache Airflow

### VOLUNTEER EXPERIENCE

Founding Member & Organisation, Science to Startup Bonn e.V.

10/2018 — ongoing

- Co-Founded a startup-focused local nonprofit called Science 2 Startup Bonn e.V..
- Planning and hosting events about entrepreneurship and startups at a local nonprofit, audience of over 2000 Students per Semester.
- Setup a Django/Wagtail-based Website, including a mailserver and shortlink application.

### CERTIFICATIONS & AWARDS

2018 Jugend Forscht 1. Place ( **Programming a Hearthstone Bot using ML** )

2018 Certificate of Advanced English ( **University of Cambridge UK** )

2020 Young IT Talent ( **Accelerator Program @ Deutsche Telekom** )

2021 Data Engineering Foundations ( **Linkedin Learning Platform** )

2022 Certification for Apache Airflow ( **Astronomer.io** )