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# Jakob Endler

## Data Engineer

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Portfolio | endler.tech

**Highly motivated and autonomous Data Engineer with 4 years of experience.**

Experience working with cutting-edge technologies such as **Clickhouse**, **GCP**, **Redpanda**, and **Vector**. Proven track record of success in both large corporates and startups. Quick learner with a strong ability to adapt to new technologies and challenges.

## 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 set up **data-intensive applications** and pipelines.
- Currently working on a Project on Google Cloud Kubernetes Engine to set up 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.
- In a second project, I'm driving the Data Engineering Effort of a Churn Prediction Project, this includes orchestrating **Apache Flink** based pipelines via **Airflow**.
- Data is loaded from **JDBC** Sources to a **Hadoop** (MapR) Volume, the pipelines are run on a **Kubernetes** Cluster, and the Deployment is automated via **GH Actions**.

### Data Engineer

Network Automation @ Deutsche Telekom

02/2020 — 03/2022

Kafka, ELK, Docker

[Each Year at DT was 9 Months of 40hr/week work, and 3 Months of full-time University.]

- 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.
- Based on this architecture, successfully onboarded two projects onto the architecture, including an 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 practices.

## 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.

## TECHNICAL SKILLS

### Technical Skills

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

### Programming

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

### Other

Proficiency in German & English, Entrepreneurship, asynchronous & remote working

## VOLUNTEER EXPERIENCE

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

10/2018 — ongoing

- Co-Founded a startup-focused local non-profit called Science 2 Startup Bonn e.V..
- Planning and hosting events about entrepreneurship and startups at a local non-profit, regular audience of over 2000 Students.
- Set up 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** )
- 2022 Microsoft Certified: Azure Fundamentals ( **Microsoft** )