

Highly driven Data Engineer with 5 years of experience, recently turned Startup-Founder focusing on Data Sovereignty

Areas of expertise: SQL, Python, Containerization, GCP, Deployment & DevOps

WORK EXPERIENCE

Co-Founder 08/2023 — ongoing
CTO @ Datapods Flutter, Supabase, Python

- I am currently running the development of our Datapods App including **Backend** aswell as **Frontend**. Also coordinating with Freelancers to support our efforts.
- Collected a total of **90k€ in non-dilutive funding** from both prize money aswell as grants.

Data Engineer 04/2022 — 07/2023
Data Analytics @ DHL Python, SQL, Terraform, GCP

- Worked 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.
- 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, 02/2020 — 03/2022
Network Automation @ Deutsche Telekom 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, 09/2018 — 02/2020
5G Network Planning @ Deutsche Telekom 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 Linux, Google Cloud, Database-Management, Kubernetes, Software Engineering, Data Streaming
Other 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**)