

I am an [AWS Certified Solutions Architect – Associate](#), designing and implementing scalable data products in the cloud. I have strong hands-on experience with DevOps, focusing on Gitops, infrastructure as code, and cloud-native operations. I have a growing interest in AI particularly on fine-tuning LLMs and LLMOps.

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## WORK EXPERIENCE

### Data/ ML Engineer | Tech Lead

ProSiebenSat.1 Media SE, Munich

May 2023 – Present | Media

- **Linear TV Scheduling Tools**
  - Optimized ETL efficiency by cutting execution time from 5 hours to 1.5 hours through query optimization, database tuning, and workflow orchestration.
  - Leveraged Metaflow to abstract AWS infrastructure, orchestrating scalable ETL tasks and training ML models with reproducibility..
  - Developed, deployed, and maintained high-performance RESTful APIs for frontend teams.
  - Trained, deployed, and served a CatBoost model using Metaflow, MLflow, and REST APIs.
  - Designed and launched an MVP frontend application in Streamlit for stakeholders to interact with.
- **DevOps & Engineering Excellence**
  - Designed, developed, and maintained GitLab pipelines for automatic unit and integration testing and cloud deployments.
  - Managed GitLab Runners, ensuring high-quality code, testing, deployment, and review apps.
  - Led cross-team collaboration to improve internal Python libraries and GitLab components.
  - Introduced and championed Terraform and uv as IaC and dependency management tools.
  - Established and enforced technical standards across the department.
  - Mentored and guided junior engineers in core software development and ML engineering.

#### Key Technologies

Python, PyTest, AWS, FastAPI, SQLAlchemy ORM, Poetry, Cloudformation, Terraform

### Data Engineer

RTL Deutschland, Cologne

Mar 2021 – April 2023 | Media

- Involved in the design and development of data product, knowledge graph in an Agile Framework.
- Involved in the design and implementation of GCP-based Kubernetes-native data pipelines.
  - Data Onboarding, cleaning and transformation.
  - Maintaining data storages
  - Evaluation and PoC implementations of various data engineering tools.

#### Key Technologies

BigQuery, GKE, ArgoCD, Cloud SQL, SPARQL, OWL

### Data Engineering Intern

Robert Bosch GmbH, Stuttgart

Mar 2020 – May 2020 | Manufacturing, Consulting

- Designed and implemented Kafka-based real-time ETL pipelines for an Industry 4.0 use case with MongoDB as source, InfluxDB for storage, and Grafana for real-time data visualization.

#### Key Technologies

Apache Spark, Apache Kafka, MongoDB, InfluxDB, Grafana, Telegraf

### Big Data Engineer

Infosys Limited, Hyderabad

Jul 2016 – Aug 2018 | Fintech, IT

- Developed and automated Big Data Warehousing pipelines.
- Independent development of ETL monitoring scripts.

#### Key Technologies

Sqoop, PySpark, Hive, MySQL

## TECHNICAL SKILLS

### Programming and Scripting

Python, Java, SQL, Bash

### Tools, Frameworks & Libraries

AWS, GCP, FastAPI

### DevOps

Gitlab Pipelines, Docker, Kubernetes, ArgoCD, Terraform, Cloudformation, Kubernetes

### Storage

RDS, DynamoDB, GCS, S3, PostgreSQL, BigQuery, BigTable, Cloud SQL

## EDUCATION

### Fachhochschule Dortmund, Germany

M.Eng Embedded Systems for Mechatronics

Oct 2018 – Apr 2021 | GPA 1,6

## LANGUAGES

English – Level C2  
German – Level B2