



MARTIN M.

Consultant

Data Engineer

PROFESSIONAL BACKGROUND

Experienced IT Consultant with a strong track record of international clients such as Siemens, PwC, and BASF. My professional career started early on with a 3-month internship at IBM in San Francisco at the age of 17, focusing on applied Reinforcement Learning in the Cybersecurity field. Throughout my 4+ years of professional experience, I have had the chance to work on various sides of IT, such as Data engineering, full-stack dev., DevOps, and mobile dev.

Education

- High school diploma (Abitur)
- Hackathonist (e.x. AI on edge by Entrepreneur First x Meta x Huggingface & ... in Paris)
- E-Learning (25+ completed courses on Udemy, 3+ Coursera etc.)

Languages

- **German:** Primary fluency
- **English:** Full professional proficiency
- **Spanish:** Elementary proficiency
- **French:** Elementary proficiency

AREAS OF EXPERTISE

- **Data Engineering** (Kafka + Confluent Cloud, Spark, Flink, ETL / ELT, Snowflake Airflow, AWS Glue, AWS Batch, dbt, ...)
- **Cloud Technologies** (AWS, Azure, GCP)
- **Containerization & Orchestration** (Docker, K8s, Helm)
- **Fullstack-Development** (React, Vue.js, Angular, Node.js, Django/Flask, Spring Boot)
- **Machine Learning & Deep Learning** (Sci-kit Learn PyTorch, TensorFlow etc.)

Certification

- **HackerRank:** Gold Badge For C++ (Top 0.3% of 21 mil. users)
- **TryHackMe** – IT Security & Penetration Testing (Top 0.1% of 2.6 mil. users)

Industry Competence

- Cybersecurity & AI
- Aviation & Robotics in the Defense Sector
- Banking & Financial Services

RELEVANT PROJECT EXPERIENCE I SELECTION

- **Siemens Cyber Security – Data Fabric**
 - Designed and implemented 4 core ETL/ELT pipelines using Apache Airflow to orchestrate workflows, including triggering AWS Glue, AWS Batch and dbt cloud jobs.
 - Ingestion + historization of data sources into AWS S3, Snowflake, and Neo4j (for knowledge graph creation).
 - Automated Terraform CI/ CD resource deployment on AWS
 - Lead for Datadog (metric collection platform) integration
 - Lead for data.world (data catalogue platform) integration
- **PricewaterhouseCoopers Deutschland GmbH – Fraud Detection Model Development**
 - Contributed to the implementation of an advanced anomaly detection model for identifying fraudulent transactions, including money laundering and crime financing
- **IBM, San Francisco – Reinforcement Learning Model Development**
 - 3-month internship in IBM's R&D division in San Francisco
 - Reinforcement Learning model for autonomous attack of IT systems trained on CVE and optimized performance from 3% to 78%

