

MAXWELL ABOAGYE

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PROFILE

Backend and data engineer with hands-on experience building ETL pipelines, REST APIs, and GenAI integrations. Proven track record of shipping production tools used daily by operational teams. Experienced with Python, Java, Spring Boot, Apache Airflow, LangChain, Docker, AWS, and CI/CD workflows. Passionate about data-driven solutions, clean architecture, and automating repetitive processes. Based in Hamburg, immediately available.

EDUCATION

Bachelor of Science in Computer Science

Graduated Oct. 2025

Free University of Bozen-Bolzano

Bolzano, Italy

Relevant Coursework: Software Engineering, Distributed Systems, Databases, Data Mining, Cloud Technologies, Algorithms & Data Structures

CORE SKILLS

Technical Skills:

Languages

Python, Java, Kotlin, JavaScript, TypeScript, SQL, Bash

Backend

Spring Boot, FastAPI, Node.js, REST APIs, Microservices

Data Engineering

Apache Airflow, Pandas, ETL Pipelines, Data Validation, LangChain

Databases

PostgreSQL, MySQL, MongoDB, Redis, Database Design, Transactions

GenAI & LLMs

LangChain, OpenAI GPT-4, RAG Pipelines, Pydantic, Vector Search

DevOps & Cloud

Docker, AWS, Terraform, GitHub Actions, CI/CD

Monitoring

Grafana, Elasticsearch, Logging, Alerting

Testing

JUnit, Mockito, Unit Tests, Integration Tests, TDD

Soft Skills:

Stakeholder Communication • Analytical Thinking • Ownership • Problem-Solving • Teamwork

EXPERIENCE

Operations Associate

November 2024 - January 2026

Amazon Deutschland Transport

Hamburg, Germany

- Built a browser extension automating a 15-minute manual workflow into a one-click operation, used daily by the Hamburg operations team to coordinate with delivery partners; deployed via GitHub Actions CI/CD pipeline
- Designed Grafana dashboards backed by Elasticsearch to monitor 300+ daily processes with automated alerting for anomalies and performance deviations
- Collaborated with stakeholders across Operations, Dispatch, and Management to identify data-driven improvements and integrate solutions into existing workflows

Software Development Intern

September 2022 - March 2023

EWO

Bolzano, Italy

- Developed REST APIs with Java and Spring Boot connected to PostgreSQL databases; implemented data validation, error handling, and transaction management
- Designed normalised database schemas and wrote optimised SQL queries with joins and aggregations for reporting features

- Worked in an agile Scrum team with Git; participated in code reviews and wrote unit and integration tests with JUnit and Mockito

PROJECTS

Job Posting ETL Pipeline — AI-Powered Data Extraction

Stack: Python, LangChain, OpenAI GPT-4, FastAPI, SQLite, Pydantic

github.com/Maxxy21/job-posting-etl-pipeline

[pipeline](https://github.com/Maxxy21/job-posting-etl-pipeline)

- ETL pipeline extracting structured data from unstructured job postings using LangChain RAG pipeline and GPT-4; schema validation with Pydantic, storage in SQLite; FastAPI REST endpoints with auto-generated OpenAPI docs

Weather ETL Pipeline — Automated Data Pipeline

Stack: Python, Apache Airflow, Pandas, PostgreSQL, Docker, Redis

github.com/Maxxy21/weather-etl-pipeline

- Automated ETL pipeline orchestrated with Apache Airflow extracting hourly weather data via API; containerised with Docker Compose; retry logic, email alerts, and idempotent loads ensure data consistency and quality

Authentication Microservice — Kotlin/Spring Boot

Stack: Kotlin, Spring Boot, Spring Security, PostgreSQL, JWT, OAuth2

github.com/maxxy21/auth-microservice

- Microservice with JWT, OAuth2, and role-based access control; fraud detection features including rate limiting, IP blocking, and account lockout; full test coverage with JUnit and Mockito; deployed via Docker and CI/CD

OpenHub Activity Analyzer — Java Data Processing

Stack: Java, PostgreSQL, Gson, Jackson, Maven, Multithreading

github.com/Maxxy21/Programming-Project-OpenHub

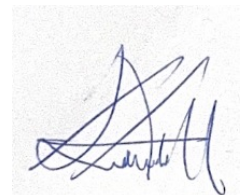
[OpenHub](https://github.com/Maxxy21/Programming-Project-OpenHub)

- Java application processing 10,000+ tourism records via REST API integration; OOP design with clear layered architecture; multithreaded processing with JSON schema validation and comprehensive error handling

LANGUAGES

English (C1) • German (B2) • Italian (C1)

Hamburg, June 11, 2026



Maxwell Aboagye