

Yaqeen Alhalal

Data Engineer

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🌐 Yaqeen Alhalal

🔗 github.com/YaqeenData

Data Engineer experienced in ETL/ELT pipelines, API development, and data quality using Python and SQL. Skilled in cloud technologies, orchestration, and data modeling. Certified by Microsoft, IBM, DataCamp, and Tableau, with experience as a volunteer Data Science TA.

Experience

Data Engineering Intern, Saudi Commission for Health Specialties 10/2025 – 05/2026 | Riyadh, KSA

- Profiled datasets and collected data via APIs and dynamic web scraping (Requests, Selenium) to support downstream analytics; built and orchestrated ETL pipelines using AirFlow DAGs.
- Designed and developed secure, production-ready APIs using Python, FastAPI, and WSO2 to enable data sharing, monitoring, and monetization.

Software Development Intern 06/2024 – 09/2024 | Hofuf, KSA
King Faisal University

- Built KFU Space web app using ASP.NET MVC Core, integrating JavaScript, Bootstrap, Entity Framework, and SQL Server.
- Designed database architecture, ensured high-quality code, and collaborated using Git.

Projects

Najm Accident Reporting System with AI and Drones

Built a YOLOv5 model to identify cars with their fault-percentage in an accident and programmed a Tello drone to take pictures. Earned a third-place finish precisely for the integration of artificial intelligence and drones. **Tools:** Python, YOLOv5, MySQL, Flask, Flutter.

Bayan | Saudi Regulations & Data Hub

A version-tracking platform for collecting and tracking Saudi regulations changes, enabling easier monitoring of regulatory changes and analysis of regulatory trends through Power BI dashboards. **Tools:** Azure, Airflow, SeaweedFS, PostgreSQL, Docker, Power BI.

Sentinel | Real-Time Healthcare Data Quality & Drift Monitoring

Built a real-time data observability pipeline that monitors streaming FHIR healthcare data for data quality issues and drift, detecting anomalies such as null spikes, schema/type changes, and unexpected volume shifts against learned baselines. **Tools:** Python, Apache Kafka, PostgreSQL, Docker, Google Cloud, Synthea, FHIR.

Education and Training

Data Engineering Bootcamp 08/2026 – 10/2026
Saudi Digital Academy
Champion of the Week

Data Science and Machine Learning Bootcamp 01/2025 – 03/2025
Tuwaiq Academy

Bachelor of Computer Science 09/2019 – 08/2024
King Faisal University
Graduated with 4.31 GPA and Second-Class Honors

Skills

Programming

Python, SQL, NoSQL, HTML, CSS, and JS

Data Engineering

Data Orchestration, Cloud Data Engineering, Data Modeling, Data Quality, API Development.

Data Science

Data Analysis, Data Storytelling, Data Visualization, Supervised and Unsupervised Machine Learning

Tools & Version Control

Git, AirFlow, Docker, Snowflake, Azure, GCP, AWS, Power BI, Tableau.

Soft Skills

Leadership, Adaptability, Problem Solving, Communication, Collaboration, Initiative.

Languages

Arabic — Native

English — IELTS Academic: **7.5 (C1)** STEP: 91

Certifications

- DataCamp Certified Data Engineer - 2026
- IBM Data Engineering Professional Certificate - 2026
- Associate Data Engineer in Snowflake - 2026
- Associate Data Engineer in Databricks - 2026
- Tableau Business Intelligence Analyst Professional Certificate - 2025