Hamza Hibbah Falaki
DATA ENGINEER

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Profile

Recent graduate in Mathematical Engineering, passionate about building end-to-end, scalable, and reliable data pipelines. Hands-on experience with ETL/ELT development, workflow orchestration, and data modelling. Skilled in SQL, Python, version control (Git), and cloud/on-premise data warehouse integration. Strong consulting mindset with the ability to align technical solutions to real business use cases. Motivated by solving complex problems through collaborative coding, ensuring high performance, monitoring, and continuous growth.

Professional Experience

Data Engineer Intern — SWAM (HPS Switch), Casablanca, Morocco   Feb 2025 – Jul 2025

- Designed and delivered end-to-end ETL pipelines extracting from CRMs and ERPs (Oracle, MySQL, PostgreSQL, SQL Server).
- Implemented data models ensuring schema consistency, reliability, and scalability across multiple use cases.
- Built secure pipelines to SFTP, MinIO, and remote storage with validation, enrichment, and automated cleaning.
- Applied testing frameworks to validate pipeline performance and fix issues fast.
- Integrated scheduling with CRON + APScheduler and continuous deployment using CI/CD.
- Collaborated with business stakeholders to ensure every pipeline served a concrete product decision or problem-solving need.
- **Technologies**: Python, Flask, SQLAlchemy, Docker, Linux, MinIO, SFTP, APScheduler, Git, CI/CD, cloud infrastructure Azure

Data Intern — Université de Nîmes, France   Feb 2023 – Mar 2023

- Conducted research on mathematical proofs and algorithmic modelling.
- Produced scientific writing and reproducible coding with LATEX.

Education

Université Bretagne Sud, Francia   2023 – 2025
Master's in Mathematical Engineering

Université de Nîmes, Francia   2020 – 2023
Bachelor's in Mathematics

Technical Skills

- **Programming & Scripting:** Python, Spark, SQL, Bash, R, PowerShell, Java, Pyspark, Scala , PL/SQL
- **Databases:** Oracle, PostgreSQL, MySQL, SQL Server, MongoDB
- **Orchestration & ETL:** Apache Airflow, APScheduler, Pandas, Custom ETL, End-to-End Pipelines
- **Cloud & Storage:** AWS S3, MinIO, SFTP, GCP, Azure, Big Data, Databricks
- **DevOps & Infrastructure:** Docker, Linux, Git, Kubernetes, CI/CD, Infrastructure as Code
- **Visualization & BI:** Power BI, Grafana, Prometheus, Tableau, Excel, Qlik
- **APIs & AI:** REST APIs, Machine Learning basics, AI-driven data products

Academic & Personal Projects

Flexible ETL Pipeline with Airflow:
- Designed configurable end-to-end ETL pipelines with user-defined SQL queries extracting from relational databases (Oracle, SQL Server).
- Managed scheduling, orchestration, and monitoring with Apache Airflow and Git version control.
- Ensured reliability, performance, and scalability with automated alerts for data quality issues.
- **Technologies**: Python, Airflow, Oracle, SQL Server, MinIO, SFTP, Git

Data Validation & Transformation Pipeline:
- Automated compliance checks and schema validation across heterogeneous data sources (PostgreSQL, CRMs).
- Designed transformation logic to move data into Gold layers for analytics, ensuring data warehouse consistency.
- Integrated performance monitoring with Grafana and Prometheus.
- **Technologies**: Python, Pandas, PostgreSQL, Grafana, Prometheus

Customer Analytics Dashboard:
- Built interactive dashboards with KPIs and aggregations, supporting business decision-making.
- Delivered business-driven solutions by combining SQL cleaning, Power BI modelling, and advanced filters.
- **Technologies**: MySQL, SQL, Power BI, Excel

Languages

Spanish — Native | English — Advanced (C1) | French — Advanced (C1)