

# **A** Calais (62100)

23 years old

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Open to remote work

French

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### **PORTFOLIO**

in @aymane-maghouti

(aymane-maghouti

### LANGUAGES

Arabic

Native

French

**Professional Proficiency** 

**English** 

**Professional Proficiency** 

### **TECHNICAL SKILLS**

# Programming languages & Frameworks

Python - Flask - FastAPI - Java -Spring - ReactJS - SQL

### Databases

MySQL - Oracle - PostgreSQL - SQL Server - Mongo DB

### Big data tech & BI tools

Hadoop - Spark - Kafka - Hive -HBase - Snowflake - DBT - Airflow -SSIS - SSRS - Power BI

### **Cloud Services**

- Azure: Blob Storage, Data Factory, Databricks, ADLS, Synapse Analytics, Azure ML
- AWS: S3, Athena, QuickSight, RDS
- GCP: Bigquery, GCS, Looker

### **Functional Skills**

ETL/ELT - Data Modeling - Data Warehousing - Data Visualization -Database Optimisation

# **Tools & Practices**

Git - GitLab - GitHub - Jira - Postman - Scrum - Agile

### INTERESTED

### Reading

Reading data-related books

### Football

Former goalkeeper for USAK Aknoul

### Cooking

Cooking Moroccan traditional food

# Aymane MAGHOUTI DATA ENGINEER | BIG DATA | AI SOLUTIONS

Data & Al Engineer with experience in enterprise data migration, real-time analytics, and Al-driven data pipelines. Skilled in building scalable data platforms and delivering intelligent BI solutions by combining Big Data, Cloud, and Al. Currently pursuing a M2 in Complex Systems Engineering at EILCO.

### **WORK EXPERIENCE**

### Freenlacer - Data & Al Engineer (Remote)

Since February 2025 Shiftbrikcs Al Hoceima, Morocco

- Built AI pipelines for 50K+ Arabic legal docs, boosting semantic search precision.
- Automated metadata & structuring, reducing manual effort from 2h to 15min.
- Designed ingestion & embedding workflows scalable to 500K+ docs.

Tech Stack: Azure Cloud, PostgreSQL, MongoDB, Python, LLM

### Data Consultant (On-Site)

From February 2025 to June 2025 SetGet Consulting - Client Inwi Casablanca, Morocco

- Migrated Oracle to SQL Server, cutting infra/licensing costs by 30% and modernizing the data ecosystem.
- Built SSIS ETL pipelines (50M+ rows/day), reducing processing time from 2h to 4min.
- Deployed partition-based purge strategies, freeing 350GB+/month and cutting runtimes from 6h to 1min
- Integrated Kafka + Python for real-time analytics (500K+ events/15min).
- Delivered Power BI & SSRS dashboards, cutting manual reporting effort by 70%.

Tech Stack: SQL Server, SSIS, Power BI, SSRS, Kafka, Python

### Data Engineer Intern (Remote)

From June 2024 to September 2024 Shiftbricks Al Hoceima, Morocco

- Built Medallion pipeline transforming 10K+ unstructured docs to structured datasets, enabling scalable AI apps.
- Automated workflows with Apache Airflow (5+ DAGs), achieving 99% job success with error handling & retries.
- Developed FastAPI + React.js validation tool, cutting manual review from 2h to 20min.
- Improved data quality with validation & schema checks.

Tech Stack: Python, FastAPI, React.js, MongoDB, PostgreSQL, Airflow, Docker, Git/GitLab

### Data Engineer Intern (Hybrid)

From July 2024 to September 2024 ONCF Rabat, Morocco

- Built Python ETL pipeline processing 10M+ train records/day into a SQL Server data warehouse.
- Designed a star schema, cutting query latency by 60% and enabling efficient KPI reporting.
- Delivered Power BI dashboards (delays, circulation, capacity), improving planning team's decisionmaking.
- Automated daily refresh workflows with SQLAlchemy, ensuring always up-to-date analytics.

Tech Stack: SQL Server, Python, SQLAlchemy, Power BI

### **EDUCATION**

# M2 in Complex Systems Engineering

Since September 2025 Ecole d'ingénieurs du Littoral Côte d'Opale Calais, France

 Studying Data Science, Big Data, Data Analysis, Data Visualization, Machine Learning, Deep Learning, and Al.

### Engineering Degree in Data Engineering

From September 2020 to June 2025 National School of Applied Sciences of Al Hoceima Al Hoceima

 Specialization in Data Engineering & Big Data, focused on databases, distributed systems, cloud, ML, DL and NLP. Hands-on with ETL/ELT, Hadoop/Spark, Kafka, BI tools. Graduated 1st in class (Promotion Major)

### COLLABORATION

### Sol Plaatje University (South Africa) | Jul 30, 2025

Invited as a Data Engineering Speaker (Visio Conference).

Presented big data fundamentals, data engineering architectures, and AI integration to 20+ students, followed by Q&A.

# Sol Plaatje University (South Africa - Remote) | Jan - Apr 2025

Collaborated on a Sign Language Recognition app using an Edge-Cloud Hybrid Architecture for real-time, privacy-preserving recognition.

Tools: HDFS, Kafka, Spark Streaming, Python, React Native, FastAPI, Slack