Data Engineer Resume - English

AYYOUB EL-HYANI

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Professional Summary

- Data Engineering professional with expertise in ETL pipelines, database optimization, and data infrastructure
- **Currently seeking Data Engineer apprenticeship position** starting September 2025
- Experience in data migration, pipeline monitoring, and master data management

Education

Université Paris Cité (Starting September 2025)

Master 2 – Distributed Systems and Data Science Technologies (apprenticeship) | Paris, France - Apprenticeship-based program focused on distributed systems, artificial intelligence, big data, and cloud architectures

École des Sciences de l'Information (ESI) (2022 – 2025)

Engineering Degree – Data Science and Knowledge Engineering | Rabat, Morocco - Advanced courses in machine learning, data engineering, and statistical modeling

Preparatory Classes for Engineering Schools (2020 – 2022)

Mathematics-Physics and Industrial Sciences Track (MPSI/MP) | Marrakesh, Morocco

Professional Experience

Somei Maroc (February 2025 – Present)

Data Engineering Intern – Predictive Maintenance | On-site, Rabat - Built complete **ETL workflows** integrating maintenance logs, sensor data, and GIS data in Dataiku -

Designed data models for efficient storage and retrieval of time-series sensor data - Implemented data quality checks and monitoring for critical pipeline components

Nucleon Security (June 2024 – August 2024)

Data Engineering Intern | On-site, Rabat - Led migration of 10M+ malware records from MongoDB to PostgreSQL, improving performance and data integrity - Developed Python scripts (pandas, SQLAlchemy) for ETL with 35% reduction in processing time - Built real-time threat dashboards using Apache Superset

Broccoli Data (July 2023 – September 2023)

Data Engineering Intern | Remote - Developed modular ETL pipelines with **dbt** to automate statistical transformations - Converted unstructured datasets to optimized parquet formats, improving accessibility and query speed by 40%

Data Engineering Projects

Master Data Management (MDM) Platform – NovaBank Group

- Designed and deployed centralized PostgreSQL models unifying clients, products, and suppliers across multiple departments
- Implemented OpenMetadata for data governance: quality, traceability, and auditing

Data Pipeline Monitoring Framework

- Developed an automated pipeline monitoring system with Airflow and Prometheus to detect bottlenecks and failures
- Created a Grafana dashboard for real-time alerts on latency, retry rates, and SLAs

Technical Skills

- **Languages:** Python, R, SQL, Scala, Java, C
- **Databases:** PostgreSQL, MongoDB, MySQL, Redis, Elasticsearch
- **Data Engineering:** dbt, Airflow, Kafka, Spark, Dataiku, Apache Superset
- **Cloud & Big Data:** AWS, GCP, Hadoop, Redshift, Snowflake
- **DevOps:** Docker, Kubernetes, CI/CD, Terraform
- **Monitoring:** Prometheus, Grafana, ELK Stack
- **Tools:** Git, Jupyter, REST APIs, gRPC

Soft Skills and Languages

- **Languages:** French (C2), English (C1), Arabic (native)
- **Soft skills:** Clear communication, critical thinking, autonomy, teamwork, adaptability, time management