Aymen Amimoussa
Data Engineer

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PROFILE

Data Engineer with hands-on experience in **SQL, Python, and Azure-based data pipelines**. Specialized in building **Lakehouse architectures (Bronze/Silver/Gold)**, **incremental ETL/ELT workflows**, and implementing **MERGE upserts and SCD Type 2**. Background in **Machine Learning and Computer Vision** adds strong expertise in **data quality, automation, and large-scale data preprocessing**. Seeking for Data Engineer roles.

TECHNICAL SKILLS

Programming & Querying: SQL (joins, window functions, CTEs, MERGE), Python

Data Engineering: ETL/ELT pipelines, Incremental loads (watermark, timestamp, hash), Data modeling, SCD Type 1 & 2, Data quality validation

Cloud & Platforms: Azure Data Factory, ADLS Gen2, Azure SQL Database, Azure Databricks

Big Data & Storage: Apache Spark (PySpark, Spark SQL), Delta Lake, Parquet

DevOps & Tooling: Git, GitHub, Azure DevOps (CI/CD basics), Docker (basic), Linux

ML / CV (Supporting): Data preprocessing pipelines, large-scale dataset handling, workflow automation

PROFESSIONAL EXPERIENCE

AI Software Developer Intern — msg Plaut Hungary, Budapest
Jun 2024 – Sep 2024

- Built and maintained **data pipelines** for ingestion, preprocessing, and validation of industrial data.

- Designed structured datasets and optimized **SQL queries** for downstream analytics.

- Worked with **high-volume structured and semi-structured data**.

- Focused on **data quality, automation, and reproducibility** in production workflows.

Database Administrator Intern — Directorate of Ouargla Province, Algeria
Feb 2023 – Mar 2023

- Maintained SQL Server databases (backup, restore, monitoring).

- Improved query performance through indexing and optimization.

Database Administrator Intern — Mother & Child Maternity Hospital, Algeria
Mar 2022 – May 2022

- Supported database maintenance and access optimization.

DATA ENGINEERING PROJECTS

Azure Lakehouse — End-to-End Data Engineering Project

- Designed **Lakehouse architecture (Bronze/Silver/Gold)** on Azure.

- Built **ADF pipelines** for ingestion from ADLS to Azure SQL staging.

- Implemented **incremental loads** using watermark and timestamp strategies.

- Transformed data using **Databricks + PySpark** into **Delta tables**.

- Applied **MERGE upserts and SCD Type 2**.

- **Result:** Production-style pipeline suitable for analytics and ML consumption.

  SQL Analytics & Data Modeling

- Advanced SQL using joins, subqueries, CTEs, and window functions.

- Deduplication, top-N per group, running totals, historical tracking.

EDUCATION

M.Sc. Computer Science — Digital Factory 4.0
Eötvös Loránd University (ELTE), Hungary — *2025*
Thesis: Process Monitoring in Case of Image Processing – CNC Machine
  B.Sc. Mathematics & Computing
Kasdi Merbah University, Algeria — *2023*

LANGUAGES

English (C2)
French (B1)
Hungarian (A2)
Arabic (Native)
German (Basic / Learning)