

# Aymen Amimoussa

## Data Engineer

Lyon, France — Open to relocation to Germany  
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### PROFILE

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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 Data Engineer roles in Germany.

### TECHNICAL SKILLS

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**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

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**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

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### 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

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### 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

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English (C2)

French (B1, improving)

Arabic (Native)

German (Basic / Learning)