

# Hamza Elharchi Elmaslohi

Data Engineer | Azure & Fabric Certified

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## Education

Eotvos Lorand University (ELTE), Budapest

Sept 2023 – July 2025

Master in Computer Science (Data Science)

- Coursework: Machine Learning, Databases, Stream Mining, Advanced Deep Network Development

Mohammed V University Rabat

Sept 2020 – July 2023

BSc in Big Data and Information Systems

## Experience

Whale Cloud, Technical Support Engineer (Budapest, Hungary)

Mar 2024 – Sep 2024

- Executed and validated Quality Assurance (QA) testing to ensure software reliability and functionality.
- Troubleshooting technical issues by analyzing logs, stored procedures, triggers, packages, etc.
- Optimized SQL scripts to improve db performance and administered Linux servers across multiple environments.

**Skills:** SQL, Oracle, Linux, Bash Script, PL/SQL, Jira

PLAEX Technologies, Software Engineer Intern (Netherlands)

Mar 2023 – Jun 2023

- Developed interactive dashboards: Created dynamic visualizations for real-time IoT bin data analysis.
- Enhanced waste management: Improved waste management efficiency through data-driven insights.
- Developed and deployed a scalable full-stack web application on AWS (EC2, S3, RDS)

**Skills:** Django, DRF, AWS, Nginx, PostgreSQL, React, Tailwind, ChartJS

## Certifications

Microsoft Azure Data Engineer Associate (DP-203)

Oct 2024

Microsoft Fabric Analytics Engineer Associate (DP-600)

Dec 2024

## Projects

Real-time Industrial Control Systems (ICS) Anomaly Detection

- Developed a high-performance, real-time anomaly detection pipeline leveraging Apache Kafka, PySpark, and an Autoencoder-based machine learning model to identify irregularities in ICS data streams
- Containerized the entire pipeline using Docker to ensure seamless portability and deployment across environments.
- Designed and implemented a Grafana monitoring dashboard for real-time visualization, enabling tracking anomaly insights.

Azure End-to-End Data Engineering Pipeline

- Built a data pipeline to migrate Sales and customer data from on-premises SQL Server to Azure using ADF and Databricks.
- Ensured secure data processing with Azure Key Vault, Entra ID (RBAC, and Managed Identity).
- Automated deployment and monitoring with Azure DevOps CI/CD and visualized insights using Power BI.

## Skills

**Programming Languages:** Python, SQL, JavaScript, Java

**Data Engineering :** PySpark, Azure Data Factory, Databricks, Synapse Analytics, Apache Kafka

**Analytics & BI:** Microsoft Fabric, Power BI, Data Modeling, Lakehouse/Warehouse

**Data Science:** PyTorch, Tensorflow, Keras, Scikit-learn, Numpy, Pandas, Matplotlib

**Web Development:** Django, Django Rest Framework, React, Tailwind CSS, Flask

**Others:** AWS, Microsoft Azure, Git, Linux, Excel, Docker, Automation, Selenium, web scraping, MS Office

## Languages

**English**    Fluent  
**Arabic**    Native

**French**    Fluent  
**German**    Intermediate (B1 Goethe)