

# Ayoub Azmi

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Portfolio: ayozm.tech | GitHub: github.com/ayozmi

Data engineer with experience in automation, full-stack development, and predictive analytics. Skilled in Python, SQL, cloud deployment (AWS), and data platform development using open-source LLMs. Strong communication and training background through hands-on teaching and internal onboarding initiatives.

## LANGUAGES

English (Fluent) | French (Bilingual) | Spanish (Intermediate) | Arabic (Native)

## EDUCATION

Master's degree: Big Data and AI 10/2023-07/2024

UNIVERSITY OF BARCELONA

Bachelor's degree: Data and AI 10/2019-07/2022

YNOV CASABLANCA

## SKILLS AND ABILITIES

### PROGRAMMING & DATA:

Python | SQL | C# | Java | C | C++ | Spark | Assembly

### CLOUD & DEPLOYMENT:

AWS (EC2, S3, RDS) | Snowflake | Docker | Kubernetes | Kafka | Git | CI/CD | Airflow

### DATABASES & DATA MODELING:

MySQL | PostgreSQL | Relational Data Modeling | MongoDB | ETL Pipelines

### WEB & AUTOMATION:

PHP (Symfony) | JavaScript (jQuery) | NodeJS | React | Django | AJAX | VBA

### TOOLS & WORKFLOW:

Team onboarding | Agile | Project Management | Data Visualization (Tableau, Web Dashboards)

## EXPERIENCE

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### Software Developer (Autónomo) - Spain

12/2023 - Present

Delivered end-to-end data and automation solutions to clients across Europe, Latin America, and North Africa.

Created a **Python** application to automate the report generation for a Belgian rail client, increasing report accuracy by **35%** and making the generation process twice as fast.

Created custom web dashboard for clients across Europe and Morocco to help streamline operations and improve workflows.

### IT Administrator & Software Developer (Nordic Design) - Morocco

08/2021 - 08/2023

Designed and maintained **SQL** databases and optimized queries for efficient data retrieval, contributing to improved data processing times.

Developed a web-based admin portal using **SQL**, **PHP**, and **JavaScript**, connecting to an **ERP** database (**Sage**) to manage commercial operations.

Created a platform to coordinate end-of-year inventory, improving both accuracy and speed.

Created an application using **VBA** that automates the label printing process getting data directly from the **SQL** database.

Led internal training sessions for non-technical staff to onboard them onto custom-built platforms, improving adoption and operational efficiency.

### Software Engineering Intern (Infinivox) - France

05/2020 - 08/2020

Created a Windows service using **C#**, that periodically archive data into **MySQL** databases.

Developed a **C#** application for accessing archived data immediately.

Managed network and VOIP servers, integrating monitoring tools like **PRTG** to ensure data communication reliability.

## IMPORTANT PROJECTS

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### Master's Final Project –SaaS Platform for Business Data Access & Logistics Optimization

University of Barcelona | 2023–2024

Designed and developed a full-stack SaaS platform that enables business users to interact with company databases via a natural language interface. Integrated an open-source **LLM** to support conversational queries and insights. The platform also features a predictive module for estimating demurrage and associated logistics costs using historical data patterns. Additionally, it includes a web scraping pipeline that collects logistics-related news, summarizes it, and delivers concise updates for decision-makers. Deployed on **AWS** to ensure scalability and performance, combining data accessibility with predictive analytics and real-time market awareness.