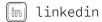
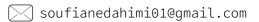
# Soufiane DAHIMI

## Software Engineer











## EXPERIENCE

## ALPHA10X | Software Engineer

March 2023 – Present | Aix-en-Provence, France

### Key Responsibilities:

- Design and implement scalable architectures and end-to-end software pipelines using Azure, Databricks, Docker, Elasticsearch, SQL and NoSQL databases. Also, build and maintain CI/CD pipelines of microservices.
- Develop production-ready APIs and web services with FastAPI, implementing caching strategies and message queuing systems for high-throughput applications.
- Develop and deploy custom AI software solutions (APIs, LLM services, dashboards) tailored to our client needs.

#### Key Achievements and Client Projects:

- Permira (\$87B AUM): Built an enterprise-grade RAG-based API in 2 weeks featuring multi-agent architecture, PDF extraction, and SQL query generation capabilities.
- ALPHA Attributes API: Architected serverless API with Redis caching and Azure Service Bus for gueue management, processing thousands of companies with multi-source data retrieval. Implemented web scraping mechanisms and optimized performance from 38s to 14s per company.
- Syensgo: Engineered automated data pipeline processing 1000+ company attributes and guerying transactions from a 2M-document Elasticsearch index, significantly reducing analysis time.

## ÁGUAS DE PORTUGAL | Data Engineering Intern

June 2023 - August 2023 | Lisbon, Portugal

- → Built Django backend for web application connected to Power BI to manage company requests and data processing workflows.
- → Developed data cleaning and processing pipelines to build robust database infrastructure.
- → Created interactive Power BI reports for executive dashboards and project management.

## PROJECTS AND ACCOMPLISHMENTS

AGENT HUB: OPEN-SOURCE PLATFORM FOR SPECIALIZED AI AGENTS  $\mid 1^{st}$  Place , Morocco AI Challenge 2024

- → Developed an open-source platform that enables modular, specialized Al agents to perform computer automation tasks.
- → Designed the to decouple agents based on tasks, leveraging lightweight LLMs and traditional software to optimize for speed, memory usage, and task accuracy.
- → Built an using langgraph, creating a graph-based execution pipeline to plan, coordinate, and adapt task flows dynamically based on user input.
- → Implemented an to benchmark agents against performance metrics such as latency, memory usage, accuracy, and cost, integrating CI/CD for automated testing and deployment.
- → Built a to score agents based on multi-factor evaluations, ensuring fair and transparent agent rankings.

#### MARS ROVER PROTOTYPE: IOT ROBOTIC SYSTEM | Full-Stack Web Development & IoT Integration

- → Built web application using Django backend and JavaScript (React) frontend for real-time control and monitoring.
- → Developed live streaming interface with integrated computer vision for face detection and remote robot operation.
- → Implemented real-time sensor data visualization with dynamic charts for temperature, humidity, and motion sensors.
- → Designed responsive web interface deployable on Raspberry Pi with radio communication modules for wireless rover control.

## **EDUCATION**

#### MASTER AND BACHELOR DEGREE IN INDUSTRIAL ENGINEERING | Minor: Data Science

EMINES - Mohammed VI Polytechnic University Sep 2019 - 2024 | Ben Guerir, Morocco

Relevant Coursework: Optimization, Linear Algebra, Probabilities, Statistics, Calculus, ML & DL, Databases, Mining, Finance.

## SKILLS

Technical Skills: Cloud Architecture (Azure, Databricks) • API Development • DevOps & CI/CD • Python • SQL & NoSQL DBs

Soft Skills: Adaptability • Teamwork • Problem Solving • Strategic Planning • Communication

Languages: English (Proficient) • French (Proficient) • Arabic (Fluent) • Chinese (HSK1)