

Mohamed El Hadjaoui

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EDUCATION

ALX

Data Scientist

Casablanca, Morocco

Feb. 2024 – Dec 2024

1337 (42 Network)

IT Architect

Benguerir, Morocco

Sep. 2019 – Aug 2024

ISMALA

Mechatronics Diploma

Casablanca, Morocco

Sep. 2016 – Jun 2018

EXPERIENCE

Freelance Data Engineer

Upwork

Jul 2024 – Present

Remote

- Developed Python scripts for automation, data extraction, and PDF modifications, streamlining client workflows and improving efficiency.
- Designed and implemented web scraping solutions using Selenium, BeautifulSoup, and API integrations to gather and process large-scale data.
- Contributed to AI-driven projects with LangChain, leveraging LLMs for Retrieval-Augmented Generation (RAG) and interactive applications.
- Managed and optimized databases for structured data storage, improving data retrieval and analysis for clients.

Software Engineer

Sportime (Sport Startup)

Jan 2023 – May 2024

Casablanca, Morocco

- Designed and maintained a scalable backend architecture with NestJS and PostgreSQL, optimizing system performance and reducing server response times by 10%.
- Integrated third-party APIs using Python, Selenium, and BeautifulSoup to enrich the platform's data, improving user engagement and content quality.
- **Key Accomplishment:** Reduced backend response times by 10%, increased data coverage by 30% through custom data scraping, and contributed to team collaboration and coding standards by actively participating in code reviews and CI/CD practices.

PROJECTS

FootballData | *Data Scraping, Management, and ETL Development*

June 2023

- Developed a data warehouse and high-performance **ETL** pipeline for data scraping and processing, ensuring reliable and accurate data transformation.
- **Key Accomplishment:** Achieved 85% data accuracy and improved data retrieval speed through optimized ETL processes and pipeline efficiency.

PoolPeer | *ChatBots*

Jun 2023

- PoolPeer Chatbot: An advanced tool for querying and discussing document repository content with users.
- Objective and Stack: Delivers precise answers using Node.js, React.js, OpenAI API, Langchain, and Tailwind CSS.

Data Stream Processing | *End-to-End Real-Time Streaming and Sentiment Analysis Architecture*

Sep 2024

- Developed a real-time data streaming pipeline with 7M+ records using Apache Spark, Kafka, and **Elasticsearch**
- Set up Spark Master-worker architecture, TCP/IP Socket Source Stream, and Kafka cluster on Confluent Cloud.
- Implemented real-time sentiment analysis using OpenAI LLM and indexed data in Elasticsearch.
- **Key Accomplishment:** Achieved real-time processing of large datasets with accurate sentiment analysis and efficient data indexing.

TECHNICAL SKILLS

Languages: Python, C/C++, SQL (Postgres, Mysql), JavaScript, HTML/CSS

Frameworks: React, Next, Node.js, Nestjs, FastApi, Tailwind CSS, Selenium, Firebase

Developer Tools: Git, Docker, Azure, GCP, ELK Stack

LeetCode: Over 135 DS & Algorithm problems