



## Taha Farjia

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Conscientious and innovative software engineer with extensive skills and exceptional aptitude for learning. Seeking a challenging and constructive position.

### EDUCATION

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#### ENSAM Casablanca

Casablanca, Morocco

*Data science & Electronics*

- Bachelor's degree.

### EXPERIENCE

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#### Diversitas Zorg (freelance)

Amsterdam, Netherlands (Remote)

Social

*Software engineer,*

11/2024 – present

- Leading the development of a **full-stack workflow management application** using **Go and Next.js**, optimizing processes for healthcare professionals.
- Architecting a **microservices-based infrastructure**, ensuring scalability, modularity, and maintainability.
- Designing **RESTful and GraphQL APIs**, improving system interoperability and data retrieval efficiency.
- Implementing **secure authentication mechanisms** and role-based access control to protect sensitive healthcare data.
- Optimizing **database performance** and **query execution** to enhance system responsiveness.

#### MICLA Engineering & Design

Tanger, Morocco

Automotive

*Software engineer,*

04/2024 – present

- **Developing high-performance networking solutions** in **C/C++**, enhancing automotive communication protocols for real-time vehicle data processing.
- Conducting **database testing and optimization**, refining queries, indexing strategies, and schema designs to improve data retrieval speeds.
- Implementing **AI-powered text-to-speech solutions** using **Python, FastAPI, and Tacotron**, enabling voice-based interactions in automotive systems.
- Building **scalable backend systems** in **Go**, ensuring robustness and high availability for cloud-based automotive applications.
- Leading the development of an **AI-driven applicant tracking system (ATS)**, integrating **machine learning** to enhance candidate screening, ranking, and recruitment workflows.

#### Atlas AI Solutions

Tanger, Morocco

AI Automation Agency

*Software engineer,*

07/2023 – 04/2024

- Automating workflows using large language models (OpenAI, llama, ...)
- Developed data pipelines for gathering, cleaning, and preprocessing large datasets, resulting in a 20% reduction in data processing times.
- Backend development (FastAPI, Django) and database management.
- Developed and maintained robust web applications leveraging Django's ORM, middleware, and templating engine.
- Designed and implemented RESTful APIs using Django REST framework, ensuring optimal performance, data validation, and serialization.
- Managing large backends utilizing FastAPI

- Containerized Django and FastAPI applications using Docker, ensuring consistent environments from development to production.
- Managed Docker images and containers, optimizing build processes and reducing deployment times.

## ROYAL AIR MAROC

Casablanca, Morocco

Airline

*Data scientist / Backend dev,*

01/2022 – 07/2023

- Utilized advanced machine learning techniques to assess aircraft condition in real-time, offering insights into wear and tear, component health, and potential areas of concern.
- Developed predictive models that proactively identified possible component failures, enhancing aircraft safety and reducing unplanned maintenance events.
- Designed and implemented machine learning models tailored for maintenance decision-making, resulting in more efficient, data-driven decisions by the maintenance team.
- Collaborated with domain experts to ensure models captured industry-specific nuances, enhancing predictive accuracy.

## CAPGEMINI ENGINEERING

Casablanca, Morocco

Engineering, Tech, Innovation, R&D Consulting

*Data scientist*

01/2021 – 12/2021

- Design of a database of Moroccan traffic signs.
- Building a real time traffic sign detection algorithm for autonomous vehicles.
- Data processing, analytics and prompt engineering.
- Utilized state-of-the-art NLP techniques to extract, preprocess, and analyze textual data from "tender plans".
- Implemented and fine-tuned pre-trained models like ["BERT", "GPT-2"] to achieve 95% accuracy in text classification tasks.

## ETAS

Frankfurt, Germany (Remote)

Automobile, Software, Hardware

*DevOps*

01/2020 – 09/2020

- Preparation of data to create marketing mix models.
- Built data visualizations using Tableau for KPIs that reduced manual reporting by 10 hours weekly
- Collaborated with product managers, gaining insight into marketing aspects and writing documents
- Using Excel and SQL, built calculator for a client to help them prioritize their project roadmap by changing inputs like customer LTV, conversion rate, and organic traffic

## SKILLS

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**GENERAL SKILLS:** Data Visualisation, Machine Learning, Deep Learning, Pattern Recognition, Database Structure & Algorithm, Statistical Analysis, Data Preparation, Quality Management, Data Mining, Backend Development, Database Management

**TECHNICAL SKILLS:** Python FastAPI,, Flask, Django, TensorFlow, Keras, LLM's APIs (OpenAI, Google Bard...), Langchain, Go, Javascript, NextJs, React R, C/C++, Power BI, VHDL, SQL & noSQL Databases , Spark, Hadoop, Excel VBA, AWS, Microsoft Azure, Docker, Deployment, Linux.

**LANGUAGES:** FRENCH(Intermediate), ENGLISH(Fluent), ARABIC(Native Language)

## CERTIFICATS

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- IBM Data Science Professional Certificate  
*IBM*
- CLA: Programming Essentials in C  
*CISCO*
- PCAP: Programming Essentials in Python  
*CISC*

