



HANI EL KHALFI

Full-Stack Developer & Data Scientist

Deployed +4 **web applications** used by +1,200 **users** and developed ML pipelines reducing data processing time by **70%**.

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Skills

Full-Stack Development: Angular, React, Spring Boot, Node.js.

Machine Learning & Deep Learning: TensorFlow, Keras, PyTorch.

Databases: SQL (MySQL), NoSQL (MongoDB).

DevOps: Git, GitHub, GitLab, Linux, Maven, Docker.

Work Methodologies: Agile, Scrum, Kanban

Professional Experience

Data & AI Developer – Automated Call Evaluation (Internship)

February 2025 – Present

Business Shared Services, Casablanca, Morocco

- Created an automated call evaluation pipeline (diarization, Pyannote/Whisper transcription, GPT-4 analysis) reducing manual QA time from **3h → 20min (89%)**.
- Developed a web application (Angular Spring Boot) to visualize results, improving supervisor efficiency by **+32%**.

Technologies: Pyannote, Whisper, OpenAI GPT-4, FastAPI, Angular, Spring Boot.

Artificial Intelligence Researcher – Facial Emotion Recognition (End-of-Study Internship)

MAScIR Foundation – UM6P, Rabat, Morocco

- Created a specific ElderReact dataset and optimized a **MobileNetV2** model through transfer learning for real-time applications (**<200ms** per image).
- Solution deployed on a robotic assistance platform, achieving an accuracy of **+67%** on a new database.

Technologies: Python, TensorFlow, MobileNetV2, Transfer Learning, Streamlit, OpenCV, Elan.

Data Innovation Developer (Internship)

June – July 2024

HoussniJob Innovation, Casablanca, Morocco

- Developed an ATS system with NLP (SpaCy) and Django, automating resume parsing and reducing pre-screening time by **50%**.
- Optimized a React/Docker interface for daily use by **20+ recruiters**.

Technologies: Django, Python, NLP, Spacy, React, Docker.

Full-Stack Developer (End-of-Study Internship)

April – June 2023

Prefecture of Meknes, Human Resources Division, Meknes, Morocco

- Designed an Angular/Node.js training management application, reducing the administrative workload by **60%**.
- Improved internal communication between departments and tracked the training of **200+ agents**.

Technologies: NodeJS, Angular, Angular Material, Chart.js, MongoDB.

Projects

Resource Management System

Spring Boot, Angular, Java

- Comprehensive resource management system with secure access for **50+ users**.
- Optimized interface for efficient allocation, reducing inventory errors by **35%**.

Potato Disease Detection

TensorFlow, Keras, Streamlit, Python

- ML application detecting diseases with **+95%** accuracy, accelerating early symptom identification.
- Deployed via Streamlit for real-time consultation (**<500ms/sample**).

Education

Faculty of Sciences and Techniques

Master's in Data Science and Intelligent Systems

Fez, Morocco

Sept. 2023 – July 2025

Faculty of Sciences and Techniques

Bachelor's in Computer Engineering

Fez, Morocco

Sept. 2022 – June 2023

Languages

English: C1 (Advanced)

French: C1 (Advanced)

Arabic: Native