

Oualid KHMAICH

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Profile

Third-year Computer Science student at **EMI**, passionate about **data science, artificial intelligence, and cloud**. Curious, autonomous, and committed, actively seeking a PFE internship starting mid-January.

Education

2023 – Present **École Mohammadia d'Ingénieurs (EMI)** – Computer Science and Digitalization
2022 – 2023 **École Centrale Casablanca (ECC)** – General Engineering
2019 – 2022 **Preparatory Classes CPGE** – MPSI-MP
2018 – 2019 **Scientific Baccalaureate** in Physical Sciences (High Honors)

Experience

June 2025 **PFA Internship - CHU Ibn Sina, Rabat** – Developed a web application for detecting and monitoring an ophthalmologic disease: tested multiple Deep Learning architectures, then optimized via fine-tuning on EfficientNet to achieve **83% accuracy**. (2 months)
March 2025 **Alternating Internship - Thales, France** – Practical training in Cloud & DevOps: implemented IAM best practices, AWS use cases, and hands-on labs. (2 months)
July 2024 **Internship - OCP Morocco** – AI voice assistant: improved an existing project (Jarvis) with a database for multiple tasks and deployed an offline LLM to replace the premium API. (1 month)
July 2023 **Internship - UTAC Morocco** – Introduction to engineering roles and hands-on learning. (1 month)

Academic Projects

○ At EMI

Water Desalination Project:

Executed using a *learning by doing* approach with a real dataset: data preprocessing and analysis, application of ML and DL models, followed by model deployment and implementation of an MLOps pipeline (in an Agile-like environment).

OpportuniT Platform:

Developed a platform connecting students and graduates with opportunities using Angular, Spring Boot, Flask, and PostgreSQL. (Integrated project, 3 months, 4 people)

Medical Awareness Application:

Built an alert and awareness app for chronic diseases (diabetes, heart) using Angular, Flask, and Machine Learning.

Assistant Chatbot:

Designed an intelligent chatbot using intent-based methods and a manually trained NN with Keras, deployed via Flask to assist users with their condition. (Individual project)

○ At ECC

Smart City – Speed Limiter (PLBD) :

9-month project handled end-to-end: research, planning, web and AI development, task tracking, and team coordination. Supervised by the Deputy Director of ECC Engineering Curriculum.

Movie Recommendation System:

Developed a clustering-based recommendation system using Python and Machine Learning (Coding Week project, 6 people).

Skills

Languages Python, Java, JavaScript, HTML/CSS, SQL
Technologies Angular, Spring Boot, Flask, Scikit-learn, Pandas, TensorFlow, Spark, MySQL, PostgreSQL
Cloud & DevOps AWS, Docker, CI/CD, Git
Tools Figma, Canva (UI/UX); Word, Excel, PowerPoint (Office)

Certificates

Stanford University & DeepLearning.AI

Machine Learning

DeepLearning.AI

Neural Networks and Deep Learning

Convolutional Neural Networks

IBM – Data Science, Tools, Methodology

BCG & University of Virginia – Digital Transformation

Udemy – Docker and Kubernetes: The Complete Guide

FreeCodeCamp – Responsive Web Design Developer

Qualities & Interests

Autonomous, curious, punctual, team player

Music, travel, football, basketball, volleyball

Languages

Arabic - Native

French - Advanced (B2)

English - Upper-Intermediate (B1+)