

MOUHCINE KHAIRAT

Computer Engineering Student – Artificial Intelligence & Full-Stack Development

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PROFESSIONAL SUMMARY

Computer Engineering student (EMSI, Casablanca) pursuing a dual Master's degree in Applied Artificial Intelligence at Université Côte d'Azur, Nice. Currently completing a Final Year Project (PFE) on a full-stack Warehouse Management System (WMS) integrating Business Central ERP. Combines strong AI/ML expertise with practical full-stack development experience across web, mobile, and enterprise software.

TECHNICAL SKILLS

Programming: Python, Java, C/C++, C#, PHP, JavaScript, Dart, .NET

ML / AI: Machine Learning, Deep Learning (ANN, CNN, RNN, LSTM), AI Agents, RAG, Fine-tuning

Frameworks & Tools: TensorFlow, TensorFlow Lite, Flask, Ollama, LangChain4j, Spring Boot/Cloud

Web / Backend: Laravel, ASP.NET, React, Angular, HTML, CSS, Bootstrap

ERP / Business Systems: Microsoft Business Central (BC), WMS/DMS architecture, API integration

Databases: MySQL, SQL Server, Oracle, MongoDB

Dev & Modeling: Git, GitHub, Agile/Scrum, Jira, DevOps, UML

PROFESSIONAL EXPERIENCE

PFE Intern – Warehouse Management System (WMS)

Mar 2026 – Sep 2026

BS-Link — Casablanca, Morocco

- Designing and developing a full-stack WMS covering warehouse and location management, pallet & batch traceability, labeling, and inventory processing.
- Building a mobile application for merchandise reception, internal transfers, delivery preparation, and vehicle fleet loading (weight & volume capacity).
- Implementing API exchange with Microsoft Business Central (BC) for seamless ERP integration.
- Developing decision-making dashboards for real-time operational visibility and reporting.

Computer Engineering Intern – AI & Full-Stack Development

Jul 2025 – Sep 2025

Capital Conseil & Technologies — Paris, France

- Developed a web application for automated management of HR profiles, contracts, timesheets (CRA), and interactions between service providers, suppliers, and clients.
- Built backend and frontend components using Angular, .NET (C#), and REST APIs.
- Contributed to structured data handling, system architecture, and collaborative development using Git and Jira.

Web Application Development Intern

Jul 2024 – Aug 2024

AI Assala School — Casablanca, Morocco

- Conceived and developed a modern, intuitive website to showcase the school's programs, manage online registrations, and optimize client engagement.
- Implemented frontend (ReactJS, HTML, CSS, Bootstrap) and backend (Django) components with MySQL/XAMPP database.

ACADEMIC PROJECTS

SmartApp – Intelligent Flutter Mobile Application

Oct 2025 – Dec 2025

Developed a smart mobile application integrating image classification via a TensorFlow Lite model, an AI assistant based on a fine-tuned model combined with RAG architecture, and an interactive MCP-based avatar.

Technologies: Flutter, Dart, TensorFlow Lite, RAG, API REST, MCP, Ollama, Python, Flask

SmartOrderAI – AI Chatbot for Restaurants

Feb 2025 – Jun 2025

Designed and implemented an intelligent chatbot (SmartOrderAI) for automated order and reservation management in restaurants. Focused on conversational logic, AI model integration, and system automation.

Technologies: Laravel, Python, Ollama, Flask, HTML, CSS, JavaScript, Bootstrap

Restaurant Website – Online Presence & Reservation System

Mar 2024 – May 2024

Designed and developed a full web solution to showcase the restaurant's menu, facilitate online reservations, and optimize client experience.

Technologies: ReactJS, HTML, CSS, JavaScript, Bootstrap, Django, XAMPP, MySQL

EDUCATION

Master's Degree – Applied Artificial Intelligence (IA2)

Oct 2025 – Oct 2026

Université Côte d'Azur, Nice, France

Engineering Degree – Computer Science & Networks

Oct 2023 – Oct 2026

EMSI – École Marocaine des Sciences de l'Ingénieur, Casablanca, Morocco

Specialized Technician – Full-Stack Development

Sep 2021 – Jul 2023

OFPPT, Casablanca, Morocco

CERTIFICATIONS

- Oracle Cloud Infrastructure 2025 – DevOps Professional — Oracle (Oct 2025)
- Deep Learning with ANN in Python: Build & Optimize — EDUCBA (Dec 2025)
- Introduction to Containers w/ Docker, Kubernetes & OpenShift — IBM (May 2025)
- React Basics — Meta (Jan 2025)
- Virtual Networks in Azure — Whizlabs (Apr 2025)
- Software Engineering: Software Design & Project Management — Hong Kong UST (Apr 2024)
- ALX AiCE – AI Career Essentials — ALX Africa (Jul 2024)
- Programming for Everybody (Python) — University of Michigan (Apr 2024)
- The Unix Workbench — Johns Hopkins University (Apr 2024)
- People & Soft Skills for Professional Success Specialization — IBM (May 2024)

OTHER INFORMATION

Languages: Arabic (Native) | French (Fluent) | English (Professional)

Interests: Machine Learning, AI Agents, Deep Learning, Basketball