



AZIRAR MAYSSAE

SOFTWARE ENGINEER

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■ PROFILE

Recent Software Engineering graduate, I am looking to grow on projects combining software development, data analysis, and artificial intelligence. Through my academic work, I have developed skills in programming, data handling and analysis, as well as designing solutions that incorporate machine learning approaches. I particularly enjoy concrete projects that turn data into useful, actionable insights for solving real-world problems.

■ PROFESSIONAL EXPERIENCE

March 2026 – June 2026 **AI Intern | Computer Vision & Machine Learning**
Ebikon, Switzerland (remote) UXV Center GmbH

- AI solution for analyzing plyometric football training from real-time video streams
 - Pose estimation models (MediaPipe, TensorFlow/Keras); FastAPI backend (REST, JWT, coach/athlete roles)
 - React/TypeScript frontend (dashboard, live analysis, PDF reports), OpenCV video processing, multi-player group mode
- Stack:** Python, TensorFlow, Keras, MediaPipe, OpenCV, FastAPI, React, TypeScript, SQLAlchemy, Git

■ FINAL YEAR PROJECT (CAPSTONE)

April 2026 – July 2026 **HomeAI — Intelligent Mobile App for Health & Daily Life Management**
Academic project

- Cross-platform mobile application: 6 RBAC roles, 50+ REST endpoints
 - Fine-tuned Atlas-Chat-2B on 9,400 QA pairs in Darija (QLoRA, GPU T4), 87% accuracy
 - Computer vision pipeline (OpenCV + HOG + MediaPipe Pose), real-time WebSocket (<200ms), intelligent OCR (Google Vision + Gemini) (90% accuracy), voice SOS mode
- Stack:** React Native, Spring Boot 3, FastAPI, PostgreSQL, Docker, JWT
- AI/ML:** Gemini 2.0 Flash, Groq Whisper, Google Vision OCR, MediaPipe, QLoRA, Atlas-Chat-2B

■ EDUCATION

2023 – 2026 **Software Engineering — ESISA (École Supérieure d'Ingénierie en Sciences Appliquées)**
Fès, Morocco

2022 – 2023 **Physical Sciences Baccalaureate (PC) — Lycée AL IKHWA**
Fès, Morocco

■ TECHNICAL SKILLS

Languages	C, C++, C#, Python, Java, HTML, CSS, JavaScript, Assembly, R, TypeScript, SQL
Frameworks	Linux (Ubuntu), Oh My Zsh, FastAPI, Flask, Spring Boot, React.js, React Native / Expo, JWT
Tools	Postman, Docker, Git, GitHub, Figma, VS Code
AI / Data	Computer Vision, Fine-tuning, LoRA/QLoRA, AI APIs, backend deployment, Vercel, ETL & Data Pipelines, MediaPipe, TensorFlow / Keras, OpenCV
Databases	MySQL, Postgres, SQLAlchemy, Supabase

■ ACADEMIC PROJECTS

Chess Game <i>C++ · Qt · OOP</i>	AI, move validation, Qt interface, full rule management.
Connect Four <i>Python · AI</i>	Graphical interface, AI, move undo, game settings.
MedPredict AI <i>Python · FastAPI · ML</i>	Medical risk prediction system: logistic regression (~89% accuracy), FastAPI REST API, interactive visualization, anomaly detection.

■ CERTIFICATIONS

Software Engineering (IBM)
Data Structures and Algorithms (Microsoft)
Databases and SQL for Data Science with Python (IBM)
Developing AI Applications with Python and Flask (IBM)
ETL and Data Pipelines (IBM)

■ LANGUAGES

Arabic: Native
French: Fluent
English: Fluent

■ QUALITIES

Analytical mindset
Problem-solving
Autonomy
Teamwork