

Mohamed CHATR

mohamedchatr8@gmail.com | [Github](#) | [LinkedIn](#) | [Portfolio](#) | (+212) 6 00 98 49 57

EDUCATION

ALX AFRICA (Powered By Holberton School)

Casablanca, Morocco

A twelve month software engineering program (Backend Specialization)

- **Awards:** Tech for impact Hackathon winner (Best idea in terms of impact).
- **Related Coursework:** Data Structures & Algorithms, software design, DevOps fundamentals, Object-Oriented Programming, bash scripting, version control.

University Hassan II of Casablanca (Faculty of sciences Aïn chock)

Casablanca, Morocco

- Professional bachelor's degree: Electrical engineering and industrial computing.
- **Related Coursework:** Embedded systems, C, assembly language, microchip PIC, industrial automation, sensor instrumentation, control systems, electrical engineering, entrepreneurship and business culture.

Al Khawarizmy school

Casablanca, Morocco

- **Associate degree:** Electromechanical and automated systems.
- **Related Coursework:** Fundamentals of industrial automation, low level programming, Control systems, applied physics, Expression and communication techniques.

TECHNICAL SKILLS

Programming languages: HTML5/CSS, JavaScript, python, java.

Database management systems: MySQL, MongoDB Atlas.

Web Frameworks: React.js, Node.js, express.js

Tools: Vim, Visual Studio Code, Github.

EXPERIENCE

Software engineer intern

Casablanca, Morocco

CIH BANK

Sep 2024 – Dec 2024

- Translated 10+ manager requirements into technical specifications.
- Accelerating the project development timeline by implementing agile SDLC methodologies, reducing sprint cycle time from 5 weeks to 4.5 weeks.
- Developed an OCR web app using tesseract-OCR engine, processing documents with 60% accuracy, streamlining data entry workflows.
- Boosted OCR reliability by implementing pre-processing filters (noise, reduction, binarization), improving text recognition accuracy from 60% to 75%.

Headstarter SWE fellow

Remote (USA)

Headstarter AI

July 2024 – Sep 2024

- Built 3 AI projects in 6 weeks using React.js, Next.js, Firebase, and Clerk.
- Collaborated with a 3-member team to develop an interactive customer support Chabot using Llama 3.1 LLM.
- Integrated a RAG pipeline using OpenAI and Pinecone that responds based on a company's knowledge base.
- Engineered a flashcard generator using Llama 3.1 LLM producing 20+ dynamic study cards.
- Gained 10+ industry insights through weekly sessions with engineers from Google, Amazon, and Y Combinator, applying learnings to improve project scalability.

LANGUAGES AND INTERESTS

Languages

- English: Full Professional Proficiency
- French: Full Professional Proficiency
- Arabic: Native language

Interests

- Volunteering in ECO projects, meaningful tech initiatives.
- Contributing to open source project.
- Participating in hackathons and coding competitions.