

Jounaid Ayoub

+212615739392 | jounaidayoub1@gmail.com | [LinkedIn](#) | [Github](#) | www.ayoooub.me



ABOUT ME

I'm a curious and driven software engineering student with a strong interest in building AI solutions. I do full-stack development, with a growing focus on backend systems and experience in distributed architectures and systems programming. I'm especially interested in LLMs, API development, containerization, and designing scalable software architectures for AI applications. I'm continuously learning and developing skills in performance optimization, low-latency systems, and writing clear, maintainable documentation.

EDUCATION

- **FST Mohammadia** Mohammadia, Morocco
Ingénierie Logicielle et Intégration des Systèmes Informatiques (ILISI) 2024 – Present
- **CPGE Mohammadia** Mohammadia, Morocco
MP (Mathematics and Physics) 2022 – 2024

SKILLS

- **Languages:** JavaScript/Typescript, C/C++ ,Python , Java, PHP, SQL, Bash
- **Technologies/frameworks:** Docker, React.js, FastAPI , Linux, Git, Github actions, Nest.js, Kafka, Redis

PROJECTS

- **End-of-Year Project and Internship** FSTM and Leyton CognitX Collaboration
High-Performance Real-Time Data Processing and Analysis System 2025
 - **Context:** Developed a high-performance system for processing and analyzing high-throughput financial market data in real time with minimal latency, capable of handling large volumes of data streams using decoupled and distributed components.
 - **Technical Overview:** Utilized Kafka for high-volume data stream handling, Redis + Celery for distributed real-time processing, **FastAPI** for building robust APIs, and Elasticsearch for high-performance data storage and indexing. Implemented report generation in multiple formats (PDF, CSV, JSON) and asynchronous delivery via email.
 - **Architecture:** Built on decoupled, independently scalable components using **Docker** for containerization, ensuring high availability, low latency, and efficient processing under heavy load, crucial for real-time anomaly detection in financial systems.
 - **Learnings:** Gained valuable experience in backend and systems development, distributed architecture, asynchronous task execution, performance optimization, latency reduction, and system design patterns focused on scalability, resilience, and maintainability.
- **Recipe Sharing Platform** React.js, Nest.js, AI
Full-Stack Web Application 2024
 - **Description:** Developed a web application allowing users to create, view, filter, and search for recipes.
 - **Features:** Implemented recipe creation, detailed recipe viewing, filtering, and search functionality for easy recipe discovery.
 - **AI Feature:** Integrated an AI conversational agent based on a language model (LLM) to assist users with recipe suggestions based on our Backend and answer Contextual questions.
- **Football Manager** HTML, CSS, JS, PHP
Web Application 2025
 - **Description:** Developed a web application to track and display football matches.

- **Features:** Integrated an administration system for managing tournaments, players, and teams. Enabled real-time result updates and competition organization.

- **AI ASSISTANT FOR THE GYM**

PYTHON, OPENCV, MEDIAPIPE

TIPE PROJECT

2023

- **Description:** Developed a real-time training tracking application using computer vision.
- **Features:** Implemented a repetition recognition system based on movement and range of motion analysis. Designed an algorithm to evaluate exercise execution quality and optimize performance tracking.
- **Learnings:** Acquired fundamentals in artificial intelligence, particularly in image recognition and pose estimation.