

Jounaid Ayoub

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ABOUT ME

Curious and enthusiastic software engineering student passionate about building end-to-end AI solutions. Experienced in full-stack and high-performance backend systems development, with a strong focus on distributed architectures, real-time data processing, and systems programming. Particularly interested in LLMs, API development, containerization, and scalable, maintainable software architectures for AI applications. Skilled in performance optimization, low-latency systems, and robust documentation practices.

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:** Python , JavaScript/Typescript, C/C++, Java, PHP, SQL, Bash
- **Technologies/frameworks:** Docker, FastAPI , Linux, Git, React.js, 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.