

# Fayez Zouari

Last updated in January 2025

## AI Developer

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### Education

**National Institute of Applied Science and Technology (INSAT)** *Engineering Student in Automatics and Industrial Computing* September 2022 – Present

### Experience

**AI Intern** *Orange Digital Center* July 2024 – Present

- Developed a monitoring system for the MEPS project tracking organic waste biogas and biofertilizer production from weekly reports with production details and improvement recommendations using Agentic workflow
- Generated forecast data for potential biogas production using MEPS for further insights for the client

**Backend Developer** *Edutech Solutions* March 2024

- Developed I-FEST2024 judges management website using Django Rest Framework and Cloudflare
- Implemented automated project assignment system matching judges with projects based on expertise

**Edge AI Developer** *Edutech Solutions* August 2024

- Embedded AWS OCR service 'Textract' in a raspberry pi 0 to fetch electricity counters values
- Linked the data read from the device to a Firebase Realtime Database
- Developed a flutter application to display each user's electricity consumption and level

**Backend Development Intern** *Satoripop* July 2020 – Sep 2020

- Developed an employee management website using Laravel (PHP framework)
- Gained valuable experience in backend development and web technologies

### Achievements and Leadership

**1st Place** *Orange x Hexabot AI Hackathon* December 2024

- Developed plugins and extensions for the Hexabot visual editor, enabling multimodal capabilities such as text-to-speech, speech-to-text, and vision integration.

**2nd Place** *TSYP 12* December 2024

- Earned 2nd place at the Tunisian Students and Young Professionals Computer Science Challenge by creating an AI-powered platform for automated cybersecurity threat detection and response, Smartshield.

**1st Place** *Orange Summer Challenge* June 2024

- Developed a monitoring system for the MEPS project tracking organic waste biogas and biofertilizer production from weekly reports with production details and improvement recommendations using Agentic workflow.

**IOAI Team Leader** *International Olympiad of AI in Bulgaria* August 2024

- Led Tunisian delegation in Bulgaria, securing bronze medal in practical round

**2nd Place** *AI National Summit (AINS) Hackathon* June 2024

- Created a developer tool for machine learning professionals, a Multi-LLM Agent System, for problem definition, data analysis, model recommendations, research, and code generation.

**17th Place** *Eurobot Finals in Nantes, France* May 2024

- Qualified 2nd for the Eurobot Finals in Nantes, France, achieving 17th place out of nearly 30 teams in the autonomous robots category.

**Participant** *International Swiss Talent Forum in Switzerland* February 2024

- Explored redesigning classrooms to create inclusive learning environments that support students of all social backgrounds.

### Personal Projects

**YouTube Lectures Q/A Chatbot**

- Developed a chatbot that responds to user question about a Youtube lecture after providing its link using Retrieval Augmented Generation (RAG)

**Code Executor Agent** Present

- Developed an agentic workflow that executes a code prompted by the user and displays results.

### Technologies

**Languages:** Python, Typescript, C/C++

**Tools and Technologies:** Git, Docker, Django, FastApi, CrewAI, Flutter, NestJs