

Mehdi Cherif

Software Engineering Student

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EDUCATION

National Institute of Applied Science and Technology

Software Engineering

September 2020 - October 2025

EXPERIENCE

Full-stack engineering intern

February 2025 - August 2025

Workerbase GmbH

Munich, Germany

- Built and deployed configurable AI agents for troubleshooting and data collection, reducing machine downtime and improving worker efficiency across factories.
- Integrated agent APIs and SDK functions into the Workerbase platform, enabling real-time data retrieval, task automation, and conversational interfaces with plant systems.
- Designed reusable AI workflows for tasks like documentation, analytics, and error resolution, ensuring scalable and secure integration within industrial environments.

Software Engineer

June 2024 - December 2024

Mindbay Technologies

London, UK

- Enhanced a high-performance web application by optimizing API calls, reducing server response times, and implementing caching strategies, resulting in a 50% performance boost.
- Created features for generating summaries, aiding users in tracking their progress and outcomes.
- Integrated an LLM to facilitate user interaction through sessions, improving user support.

Software Engineer Intern

July 2023 - August 2023

Technozor

Tunis, Tunisia

- Built a web application for drone control using Flask, ReactJS, ROS to enhance agricultural drone operations.
- Integrated YOLO-based computer vision algorithms for accurate tree and farm detection.

PROJECTS

'9anounGPT': AI Lawyer Assistant

- Engineered a chatbot using Retrieval-Augmented Generation, enhancing legal consultation efficiency.
- Integrated the chatbot into a law forum website, facilitating user engagement and discussion.
- Implemented appointment scheduling features, streamlining user interactions with lawyers.

Tunisian Water Level Prediction

- Established a Time Series model predicting water levels in Tunisian dams, aiding water resource management.

CO2 Emission Prediction in Rwanda

- Built a LightGBM regression model to forecast CO2 emissions, supporting environmental policy decisions.

Traffic Signal Optimization System

- Designed a system using YOLO and GRU to optimize traffic light duration, reducing traffic congestion.

LANGUAGES

English (Proficient), French (Proficient), Arabic (Native)

TECHNICAL SKILLS

Programming Languages: JavaScript, Python, Java, C, C++, PHP

Frameworks: NextJS, ReactJS, Angular, NestJS, Flask, Django, ROS

Message Brokers: Apache Kafka, RabbitMQ

Developer Tools: Git, Docker, Kubernetes