

YOSRA RHIM

Embedded Systems and AI Software Engineer

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Portfolio

Profile

Pursuing an engineering degree with a strong passion for Artificial Intelligence, Embedded Systems, and IoT, I am seeking a 6-month internship to apply my skills and contribute to innovative, AI-driven projects that foster professional growth.

Technical Skills

AI/ ML: TensorFlow, PyTorch, Scikit-learn, YOLOv3 , OpenCV, NLP , LLM , Transformers (BERT, GPT), RAG

Programming: Python, C/C++, JavaScript

Databases: MySQL , PostgreSQL , MongoDB , Firebase , PowerBI

Web Development : Frontend : HTML, CSS, React.js , Angular ; **Backend :** Node.js, Spring Boot , Express.js , API REST, JSON , JWT Authentication

IoT/Embedded: ESP32, STM32, Raspberry Pi, MQTT

Tools: Git, Docker, Postman, VS Code, Agile/Scrum

AI Projects

Smart Chatbot - Developed a generative **AI chatbot** using Transformers and **NLP** to provide contextual, human-like responses and automated content generation.

AI Knowledge Assistant – Developed a generative **GenAI** for technical document summarization (**Flask, Transformers, Hugging Face**).

AI- Fire Extinguisher System – Designed a real-time fire detection system (ESP32-CAM + YOLOv3-Tiny).

Skills : Python (**Flask, FastAPI**), TensorFlow, NLP, LLM, RAG, OpenAPI

Professional Experience

Leoni – Sousse

June 2025

AI Engineer and Full-Stack Intern - Smart Stage (AI-Powered Internship Management Platform)

- Developed a full-stack web platform using (**Node.js, React.js, MongoDB, Power BI**) .
- Implemented predictive analytics for automated task recommendations (+30% efficiency).
- Implemented secure authentication (**JWT**) and role-based access control for interns, coaches, and administrators.

Dräxlmaier – Sousse

Aug 2024

AI Developer Intern - Predictive Analytics Platform

- Created a **real-time analytics** platform achieving 95% forecasting accuracy using ensemble models .
- Implemented automated **data pipelines** and **Power BI dashboards** for AI-driven decision making.

CRMN – Sousse

Jan – Jun 2023

AI and Web Developer Intern - AI-Driven Telemedicine Platform Integrating a Smart Mobile Robot for Remote Consultations

- Developed a telemedicine robot with **AI-assisted** remote diagnostics.
- Built a web interface (**React, Firebase, SQL**) for live doctor–robot interaction.

Watts Electronics – Monastir

Aug 2022

IoT Developer Intern – Smart Device Development

Designed electronic boards for smart environmental monitoring with Arduino/ESP32/STM32.

Education

- **National Private Engineering School – ESPRIT , Monastir**

2023–2026

Engineering Cycle in Embedded Electronic Systems and Telecommunications

- **Higher Institute of Computer Science and Mathematics - ISIMM**

2020–2023

Bachelor's Degree in Embedded Systems

- **High School - Monastir**

June 2020

Baccalaureate Diploma in Technical Sciences

Certifications

- Deep Learning & AI for Predictive Maintenance - NVIDIA 2024 | Fundamentals of ROS Code - The Construct 2024 | Industry 4.0 Fundamentals - Novation Industry 4.0 (2024) | Python for Data Science - Coursera 2025

Languages

Arabic: Native | French: Fluent (C1) | English: Professional (B2)