

Rhim Yosra

Embedded Systems and AI Software Engineer

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Profile

Currently pursuing an engineering degree, I am a final-year engineering student with a strong passion for Artificial Intelligence, Embedded Software, and IoT. I bring solid technical expertise and strong analytical and problem-solving skills. I am seeking a 6-month internship to advance my career by contributing to innovative AI-driven projects and developing impactful technological solutions.

Experience

Development Intern and AI , Leoni – Sousse June 2025

Smart Stage (AI-Powered Internship Management Platform)

- Developed a full-stack web platform using **Node.js, React, MongoDB, and Power BI** to digitalize internship management and automate reporting.
- Integrated AI analytics for task prioritization, performance recommendations, and **intelligent dashboards** and improving efficiency by 30% .
- Designed a modular architecture enabling future integration of a knowledge-based assistant **powered by AI**.
Skills : Node.js , Express.js , MongoDB , Python (Flask) , TensorFlow , Power BI , HTML/CSS/JS .

Networks and IoT Intern , Dräxlmaier –Sousse Aug 2024

Predictive Analytics Platform (Real-Time Forecasting Tool)

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

Skills : Python , Scikit-learn , AWS , Pandas , Power BI , Model Deployment .

Development and Robotics Intern , CRMN –Sousse Jan 2023 - June 2023

AI-Driven Telemedicine Platform Integrating a Smart Mobile Robot for Remote Consultations(Real-Time Forecasting Tool)

- Developed a **telemedicine platform** integrating a mobile robot to enable remote consultations and medical task automation.
- Built the web interface using **React, SQL, and Firebase** , allowing real-time communication between healthcare professionals and the robot.
Skills : React, SQL, Firebase, Embedded C, IoT, Robotics

IoT Intern ,Watts Electronis – Monastir Aug 2022

- Designed electronic boards for a smart environmental monitoring device, integrating sensors and leveraging **Arduino/ESP32/STM32, IoT, C/C++ , MQTT, and Python**

Education

National Private Engineering School - ESPRIM September 2023 – June 2026

- Engineering Cycle in Embedded Electronic Systems and Telecommunications

Higher Institute of Computer Science and Mathematics - ISIMM September 2020 – June 2023

- Bachelor's Degree in Embedded Systems

High School - Monastir June 2020

- Baccalaureate Diploma in Technical Sciences

Projects

Smart Chatbot (Generative AI Conversational Assistant)

June 2025

- Designed an **intelligent chatbot** using Transformers and **NLP** to understand context and generate human-like responses
- Integrated **GenAI** capabilities for automatic and contextual content generation (text, summaries, methodologies)

Skills: Python , TensorFlow , NLP , Hugging Face , LLM , RAG , Transformers , Flask

AI Knowledge Assistant (Generative Agent for Technical Documentation)

Mars 2025

- Developed an AI-powered generative assistant capable of drafting and summarizing technical documents automatically using **NLP and Large Language Models (LLMs)**.
- Integrated context-aware generation based on internal data (project type, domain, and user history) to ensure consistency and relevance.
- Designed a **Flask-based** interface for interactive content generation and continuous learning from user feedback. **Skills:** Python , Hugging Face Transfomes , FastAPI , RAG , OpenAPI , Flask

IoT / AI Fire Extinguisher System

Sep 2024

- Designed a **real-time fire detection** and suppression system using **ESP32-CAM and YOLOv3-Tiny** , integrating intelligent actuation and IoT communication for safety automation.

Skills: Python , YOLOv3-Tiny , MQTT , Embedded C , OpenCV , ESP32

Technologies

Programming : Python , C/C++ , JavaScript

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

Databases : MySQL , MongoDB , Firebase , Power BI

Machine Learning / Artificial Intelligence: TensorFlow , PyTorch , Scikit-learn , Deep Learning , Neural Networks , Computer Vision (YOLOv3-Tiny , OpenCV)

NLP , Transformers (BERT, GPT, T5) , Generative AI (LLMs) , Recommendation Systems , Predictive Analytics .

Embedded Systems and IOT : STM32 , ESP32 , Raspberry Pi, Arduino / IDE : STM32CubeIDE , Arduino IDE

Tools and Environments : Git, Docker, CI/CD, Power BI, Postman, VS Code, Agile/Scrum

Certifications

- Getting Started with Deep Learning & AI for Predictive Maintenance June 2025
- Fundamentals of ROS Code March 2025
- Industry 4.0 Fundamentals Novation City, 2025
- Python for Data Science June 2022

Languages

Arabic : Native

French : C1 (Fluent)

English : B2 (Intermediate)