MAHARI Mohamed *Software Developer and Engineer*

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📍 Reghaia, Algiers, Algeria

Professional Summary

Software developer and engineer with strong experience in Python, JavaScript, and C.
Passionate about open-source development, software quality, and scalable business applications. Proven track record in developing diagnostic software, Chrome extensions, and contributing to ERP customization projects. Skilled in data structures, algorithms, ORM systems, and AI integration, with a collaborative mindset and a commitment to delivering clean, efficient code.

Professional Experience

2023 – 2024 **Software Developer (Academic Project)**
USTHB
- Developed predictive diagnostic software for electrical machine fault detection using Python (PySide6, Numpy, Pandas, Scikit-learn, Matplotlib).
- Integrated AI models and data visualization dashboards to optimize operational maintenance.

03/2024 – 06/2024 **Technical Sales Intern**
INOR Trading
- Managed over 50 client accounts and executed 100+ technical product demos.
- Participated in ERP customization discussions, technical documentation, and database operations.

02/2023 – 03/2023 **Technical Intern**
SIEMENS
- Automated climate and lighting systems for agricultural facilities using Siemens S7-300 PLC.
- Conducted functional and validation tests, contributing to technical report writing.

07/2023 – 09/2023 **Engineering Intern**
SOMAFE
- Performed electrical protection studies and designed EPLAN schematics.
- Supported data processing and technical documentation management for industrial projects.

Education

2022 – 2024 **Master's in Industrial Systems Engineering**
USTHB
- Specialized in software development, diagnostics systems, and electrical infrastructure.
- Major Projects: Diagnostic Software Development, Hospital Electrical Network and Fire Safety System Design (15,000 m² facility, NFC 15-100 & R7 compliant)

2022 – 2024 **Bachelor's in Electrical Engineering**
USTHB
- Thesis: Study of Multi-junction Photovoltaic Cells.

Technical Skills

Programming
Python, JavaScript, C, HTML, CSS, SQL

Frameworks & Libraries
PySide6, Scikit-learn, Pandas, Matplotlib

Web Development
Chrome Extensions, Flask basics

Tools & Platforms
Git, Odoo ORM, PostgreSQL, VS Code, GitHub

Development Concepts
Data Structures, Algorithms, MVC pattern, REST APIs, ORM systems

ERP & Business Software
Odoo ERP, SAP (beginner)

Testing & Debugging
Unit Testing, Debugging, Data Analysis, Code Refactoring

Languages

Arabic
Native

English
Fluent

French
Intermediate

Interests

- Software development
- open-source contribution
- AI applications
- business software
- productivity tools
- digital technology trends

Certifications

CS50P: Programming with Python - Harvard (online)

CS50x: Introduction to Computer Science - Harvard (online)
Topics: Algorithms, Data Structures, C, Python, JavaScript, Memory Management, Web Development
Final Project: Developed 'Y-Traction' Chrome extension to enhance productivity on YouTube

SAP for Absolute Beginners - Udemy

Startup Project Defense - USTHB

CV_UP Career Accelerator - Skill It Up