

SERSIF ABDELJALIL

Full-Stack Developer / Software Engineer / IoT & Embedded Systems

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SersifAbdeljalil



Professional Profile

Master's student in Computer Engineering and Data Analysis, seeking an end-of-studies internship to deepen skills in full-stack development, Artificial Intelligence, Data Analysis, IoT and embedded systems. Passionate developer with hands-on experience in web/mobile applications, IoT solutions for precision agriculture and industrial process optimization. Motivated, rigorous and ready to actively contribute to the company's innovative projects.

Education

2024 – **Master's in Computer Engineering and Data Analysis**, Chouaib Doukkali University, El Jadida, Morocco
Present Specialization in data analysis, Big Data, software architecture. Applied AI research projects.

2020 – 2024 **Bachelor's in Mathematics and Computer Science**, Chouaib Doukkali University, El Jadida, Morocco
Training in algorithms, data structures, statistics. Software development projects.

Professional Experience

August 2025 – **Data Scientist / Process Engineer**, OCP/KOFERT (OCP Group), Morocco
October 2025

- ML models (XGBOOST) for production optimization - 15% efficiency improvement
- Analysis of industrial datasets >10GB, identification of optimization patterns
- Implementation of advanced process control (APC), acid drainage reduction
- Python/Plotly dashboards for real-time KPI monitoring

January 2024 – **Full-Stack Developer**, Iqra El Jadida Library, Morocco
– April 2024

- SaaS library management application - Node.js/Express REST API + React Native
- MySQL modeling and optimization for loan/return management
- Production deployment with performance monitoring

Major Technical Projects

Precision Agriculture IoT System, C, Arduino, ESP32, IoT

- ESP32-based embedded solution for environmental monitoring (temperature, humidity, pH)
- C programming for sensor data acquisition + automated irrigation

Intelligent Scientific Chatbot, NLP, Python, Scopus API

- Virtual assistant using Hugging Face transformers + Scopus API integration
- Preprocessing and classification of scientific articles, conversational interface

Revent Ticket Marketplace, Full-Stack, React, Node.js

- Microservices architecture for ticket resale platform
- Responsive React frontend + Node.js/Express API for transaction management

Technical and Personal Skills

Technologies and Tools

Programming Languages

HTML, CSS, Python, Java EE, JavaScript, C, PHP, SQL

Web & Mobile Development

React.js, Angular, Next.js, React Native, Node.js, Express.js, RESTful API

Data Science & Deep Learning

Pandas, NumPy, Scikit-learn, OpenCV, TensorFlow, Keras, PyTorch, RNN, LLM

Databases

MySQL, Oracle, MongoDB

IoT & DevOps

Arduino, ESP32, sensors/actuators, Docker, Kubernetes, CI/CD, Git/GitHub, Linux, Postman, Jira

Personal Skills

Methodologies

Agile/Scrum, DevOps

Soft Skills

Complex problem solving, technical communication, project leadership

Languages

Arabic: Native language

French: Fluent

English: Fluent

Certifications

Introduction to AI
Data Science