

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