SERSIF ABDELJALIL

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

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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 – Present — **Master's in Computer Engineering and Data Analysis**, *Chouaib Doukkali University*, El Jadida, Morocco
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 – October 2025 — **Data Scientist / Process Engineer**, *OCP/KOFERT (OCP Group)*, Morocco
- 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