

ALOUAN AYOUB

Software Engineer | Java | Spring Boot | React | AWS

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Professional Profile

Software Engineer specialized in Java and Spring Boot microservices with Keycloak (RBAC, SSO), experienced in large-scale data processing (ETL 2M+ leads/day) and Cloud deployment (AWS/Docker). Strong expertise in React and scalable platforms integrating AI and high-performance optimization.

Skills

- Backend:** Java, Spring Boot (microservices, Keycloak security), Django, Flask.
Frontend: JavaScript, React, Angular, Flutter (UI/UX).
DevOps & Cloud: Docker, AWS (EC2, S3), CI/CD.
Data: ETL (Python, Celery), PostgreSQL, Elasticsearch, SQL Server.
Machine Learning: Pandas, NumPy, Scikit-learn, Data Visualization.
Methodologies & Tools: JUnit, Postman, SonarQube, Git/GitHub, Agile/Scrum.

Professional Experience

IAWEB.DEV – Havet Digital Marrakech
Software Engineer & Data Scientist – Fixed-term contract Aug 2025 – Oct 2025

DataPull – Multi-agent B2B/B2C lead analysis and prospecting platform

- Finalized the DataPull platform (Spring Boot, React, AWS) with **>90% stability**.
- Designed and deployed a **multi-agent prospecting system** integrated with DataPull APIs.
- Delivered new features and optimized microservices achieving **<150 ms response time**.

IAWEB.DEV – Havet Digital Marrakech
Full-Stack Engineer – Graduation Internship Mar 2025 – Aug 2025

Development of DataPull, an innovative data-driven AI-powered prospecting platform.

- Developed **4 Spring Boot microservices (Gateway, B2B, B2C, Users)** handling up to **3,000 req/min**.
- Built a complete **ETL pipeline** processing **2M+ leads/day** (cleaning, normalization, enrichment).
- Deployed a real-time search architecture with **Elasticsearch + PostgreSQL**.
- Developed the **React frontend** (dashboards, filters, export, statistics).
- Ensured Cloud deployment on **AWS (EC2, S3)** using Docker, achieving **90% uptime**.
- Integrated **Keycloak** (RBAC, tokens, sessions, realms).

Court of Appeal Marrakech
Web Developer – Internship Jul 2024 – Sept 2024

- Full-stack (**Spring Boot + Angular**) leave management system for **200+ employees**.
- Automated workflows: **requests, approval, notifications, statistics**.
- Reduced administrative processing time by **60%** and eliminated manual errors.

EKBlocks Marrakech
Web Developer – Internship Jul 2023 – Sept 2023

- Built a school management application using **Django + React**.
- Developed modules for student enrollment, classes, and teachers.

Education

Engineering Degree in Computer Science and Networks EMSI – Marrakech (2022–2025)

Preparatory Classes for Engineering Studies EMSI – Marrakech (2020–2022)

Certifications

- Building Scalable Java Microservices with Spring Boot and Spring Cloud
- Machine Learning with Python
- Introduction to Git and GitHub
- Introduction to DevOps

Languages

- Arabic:** Native
- French:** Fluent
- English:** Advanced