

EL HAJOUÏ Aïcha

Junior Software Engineer

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PROFESSIONAL EXPERIENCE

End-of-Studies Internship at Orun AI - 6 months

📅 February - August 2024 📍 Ontario, Canada

Design and development of an off-chain platform enabling financial institutions to govern smart contracts on the blockchain.

- User interface development using React.js
- JWT authentication/authorization implemented with Java
- Developed a project creation and smart contract storage service using Spring Boot, Azure Cosmos DB, and Azure Blob Storage
- Built a service for injecting rules into a smart contract using ANTLR
- Deployment, interaction, and event listening of a smart contract on the blockchain using web3.js

React Spring Boot web3.js ANTLR Docker Solidity

Java Jira Microsoft Azure Microservices Kubernetes

2nd Year Internship at CNSS - 2 months

📅 July - August 2023 📍 Casablanca, Morocco

- Developed a high-performance program to load large data files into a customized Oracle database, including data formatting, optimization of time and memory through **batching** and **parallel processing**.

Spring Boot Oracle Database Docker jUnit

Apache Commons / POI

1st Year Internship at LMS - 1 month

📅 August 2022 📍 Casablanca, Morocco

- Design and develop a web application for managing internship requests: The application allowed the company to post internship offers, manage applications, and notify candidates of the progress of their applications.

Laravel 8 PHP HTML CSS JS MySQL

ACADEMIC BACKGROUND

State Engineer Degree: Software Engineering

École nationale supérieure d'informatique et d'analyse des systèmes (ENSIAS)

📅 2021 - 2024 📍 Rabat, Morocco

Preparatory Classes for Engineering Schools - Technology and Industrial Sciences (TSI)

Lycée Technique Mohammeda

📅 2019 - 2021 📍 Mohammeda, Morocco

High School Diploma in Mechanical Sciences and Technologies

Lycée Qualifiant Ibnou Mandour

📅 2019 📍 Casablanca, Morocco

CERTIFICATIONS

Artificial Intelligence Analyst Certification issued by IBM

Training in data analysis, machine learning, natural language processing, computer vision, and practical applications of AI.

SKILLS

- **Programming Languages** Java C Python Rust Solidity
- **Web Development** React Spring Boot Laravel 8
- **Databases** MySQL Oracle MongoDB
- **Cloud Technologies** GCP IBM Cloud Microsoft Azure
- **DevOps** Docker Kubernetes Git Jenkins
- **Tools and Technologies** ANTLR Blockchain Rasa jBPM web3.js
- **Agile Project Management** Jira
- **Hobbies** Running Graphic Design

ACADEMIC PROJECTS

Config2Compose - Model-Driven Engineering Project

Design and generation of Docker Compose files from configuration files (application.properties and Dockerfile), following model-driven engineering principles.

Tools: Spring Boot, Java, EMF, Eclipse Epsilon (EGL, ETL)

Workflow Application for Mission Management

- Develop a mission management application for professors and administrators, based on a service-oriented architecture.
- **Tools:** MuleSoft, React, BPMN

BPMN Project: Procurement Process via Call for Tenders

- Designed, modeled and implemented a procurement process via call for tenders using BPMN principles with jBPM.

Chatbot for Meal Planning

- Chatbot designed to plan weekly personalized meals while respecting specific user constraints (CSP).
Tools: Rasa, Spring Boot, MySQL, Docker, Kubernetes, Jenkins, jUnit

Design and Development of a Web Application for Library Management and Author Interaction

Tools: Spring Boot, Docker, Amazon RDS, MySQL
Flounder Language Compiler

Interpreter for a custom markup programming language.

- Lexical analysis - Syntax analysis - Execution

Tools: C, HTML

LANGUAGES

- French Bilingual proficiency
- English Professional proficiency
- Arabic Native proficiency