


# Amjed Allaya *Full Stack Developer*

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 [github.com/AmjedAllaya](https://github.com/AmjedAllaya)

## PROFILE

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Software engineer, specializing in Java backend and DevOps, with 4 years' experience in building out professional projects, from initial design to final product.

## PROFESSIONAL EXPERIENCE

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Apr 2022 – present  
Tunis, Tunisia

### **Full Stack Developer**

*Sofrecom Group - ORANGE FRANCE*

Sofrecom Tunisie, a subsidiary of Orange France, is a leader in the telecommunications sector. Collaborate with Scrum teams in France and Tunisia to develop key functionalities of two internal Orange EDMS microservices: the “Business Document Generator” and the “Business Document Managers”.

- Use TDD methodologies to ensure high code quality and robust solutions
- Communicate directly with customers in French and English to discuss technical aspects of new functionalities.
- Microservice for “Commercial document generation” for the banking and insurance sector
  - Implement a currency and tax manager to improve regulatory compliance and financial management for customers
  - Manage Orange's PaaS cloud with CloudFoundry and ensure proper orchestration between microservices
  - Develop data and model mapping functions with Apache POI and Kotlin, to reduce document processing time compared with Java Spring Boot
  - Integrate Amazon S3 for secure document storage, reinforcing the protection of sensitive data.
  - Integrate a Redis database management system to cache data.
  - Generalize key functionalities to reduce development costs by making APIs more generic.
- Microservice for “Commercial document management”.
  - Participate in the creation of a business document management solution using Quarkus, Spring Boot, Angular and Nuxeo.
  - Integrate Apache Kafka to improve application performance and enable real-time data processing.
  - Manage the Orange CaaS cloud infrastructure for the production environment and ensure proper orchestration between microservices.
  - Manage Kubernetes clusters in various environments.
  - Design and implement a gateway with Quarkus to optimize request management and reduce response time for customers.
  - Finalize and optimize the CI/CD pipeline with GitLab CI to accelerate development and deployment cycles.
  - Integrate Prometheus and Grafana for performance monitoring.
  - Create an automatic backup system for PostgreSQL databases.
  - Resolve security issues such as XSS attacks and sniffing by implementing security sanitization mechanisms in Kubernetes cluster code and configuration.

Oct 2020 – Feb 2022  
Tunis, Tunisie

### **R&D Developer - Full STACK Developer**

*Advyteam*

Participate in the design and development of the various functionalities of a SaaS HRIS solution called BubbleYou as part of a Scrum team of over 20 people.

- Improve Angular frontend performance by optimizing notification management via NgRx.
- Integrate Apache Kafka to improve application performance and enable real-time data processing.
- Design and develop a geocoded map using OpenStreetMap with Quarkus and Angular.
- integrating Dijkstra's algorithm to determine the shortest route to external training centers.
- Develop widgets for managing social networks (Instagram and Twitter) with Quarkus and Angular, using the Facebook and Twitter APIs respectively.
- Design and develop an e-learning widget for the e-learning module with Quarkus, Angular and FullCalendar for the frontend.
- Integrating the TalentLMS API and using the Hodgson-Moore algorithm for training scheduling.
- Participate in the development of an absence management system using the Ford-Fulkerson algorithm.
- Participate in the development and implementation of the Welsh-Powell algorithm for training room management.
- Develop a messaging system (SMS) using Quarkus, Angular and the Twilio API.
- Use TDD methodologies to ensure high code quality and robust solutions.
- Set up an integrated videoconferencing system using Jitsi.
- Manage conflicts via GitLab and deal with bugs identified during the validation phase.
- Participate in various Scrum ceremonies, including daily meetings, sprint planning, sprint reviews and retrospectives.
- Continuously integrate and deploy with Jenkins pipelines.
- Orchestrate and replicate Docker containers (Keycloak, MinIO, Hazelcast, PostgreSQL) with Kubernetes using Helm.

Jan 2020 – Jun 2020  
Sousse, Tunisia

### **Final year internship**

*Dormal Corp*

Design and development of an LMS solution in the form of an e-learning platform.

Jan 2019 – Mar 2019  
Monastir, Tunisia

### **Internship**

*Wind Consulting*

Design and development of an oil well manager, which retrieves data from various sources (Excel files and devices), applies calculations and displays the results in graphical form.

Feb 2018 – Mar 2018  
Monastir, Tunisia

### **Internship**

*Tunisian Electricity and Gas Company*

During my internship, I gained valuable insight into the operations of a large organization and learned about ERP systems and their functionalities.

## SKILLS

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Angular, Spring, Spring boot, Spring Security, Quarkus, Java, Git, GitlabCi, Jenkins, Microservice Architecture, Hibernate, Postgres, Helm, Maven, Nginx, Gradle, Nuxeo, SOAP, RESTful API, Apache Kafka, Cloud Foundry, Hazelcast, Kubernetes, Docker, Docker Compose, Keycloak, Minio, Flyway, Redis, Amazon S3

## LANGUAGES

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### French

B2

### English

B2

## AWARDS

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### First prize

*Open innovation Hackathon of Tunisian American enterprise Fund*

### Second prize

*Tech Fest - Iset Sousse*

## CERTIFICATES

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- Machine Learning with Python
- Data Analysis with Python

## INTERESTS

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- Lecture
- Jeux vidéo
- Natation