

MOHAMED FAROUK AYADI

Full Stack Java Node Developer | Spring Boot | Kubernetes | CKAD Certified



Full Stack Java Developer with 4 years of experience building scalable microservices cloud-native applications, and enterprise solutions. Skilled in Spring Boot, Kubernetes, and CI/CD pipelines, with proven success in improving solution performance and delivering high-impact features.

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www.linkedin.com/in/farouk9 | Farouk615 (Mohamed Farouk Ayadi) (github.com)

Portfolio link: <https://farouktech.netlify.app/>

SKILLS

Backend development: Spring boot, Spring Security, Node js, Rest Api, Microservices

Mobile development: Flutter, Dart

Frontend development: Html, css, javaScript, Typescript, React, Vue, Angular, React, Sass, Wordpress

DevOps tools: Docker, Kubernetes, Jenkins, Azure, DevOps

Database: Mysql, MongoDB, PostgreSQL

Project Management: Atlassian Confluence Jira

PROFESSIONAL EXPERIENCE

CREATIVAS : ADD-ON CONFLUENCE DEVELOPER

09/2024 - now

Sfax, Tunisia

PROJECT: SMART COURSES FOR CONFLUENCE

Developed and maintained the **backend** infrastructure for Smart Courses, The leading Learning Management System (LMS) of Confluence. The platform empowers organizations to efficiently manage, deliver, and evaluate training courses and learning programs. Key responsibilities included seamless delivery of educational content to enhance corporate training and development initiatives.

TASKS:

- Led backend development for Smart Courses, a Confluence-hosted LMS, designing scalable **microservices** with **Spring Boot** and **Kubernetes**.
- Drove app expansion by implementing advanced features, boosting marketplace downloads by **10%** within three months.
- Helped achieve top-rated status in the Confluence Marketplace through robust **API** integrations and performance enhancements.
- Leveraged **SOLID** principles by introducing loosely coupled classes helping in making code more reusable, maintainable, flexible and stable
- Worked with different design patterns like the **Builder** and **Factory Method** patterns leveraging flexibility and **Separation of Concerns**
- Architected a comprehensive reporting functionality that enhances course metric protection and access management. Leveraged **32** distinct user roles to ensure secure and role-based access to sensitive training data.
- Built a **Recurrent Courses** feature, enabling users to schedule courses at customizable intervals (e.g., weekly, monthly, yearly). Integrated **notifications** to automatically remind users of upcoming or recurring training sessions, improving user engagement and ensuring consistent participation in learning programs.
- **Reduced** API response times by **40%** through code optimization and algorithm improvements, increasing overall app speed by **30%**.

Technologies: Spring boot / JPA / LMS / Atlassian / Confluence / React / Docker / Jenkins

KNOWLEPSY: FULL STACK DEVELOPER

2022- 08/2024

Lisbon, Portugal

PROJECT: E-HEALTH APP

Spearheaded mobile application development Architected for individuals living with epilepsy and their caregivers offering real-time seizure alerts, personalized trigger tracking, and comprehensive management plans : [Seizure Forecast by Knowlepsy on the App Store \(apple.com\)](#)

TASKS:

- Collaborated with a **6-person team** to develop **medical IOT software** that address epilepsy challenges.
- Crafted and implemented a critical feature tailored for epileptic patients, enabling nearly **real-time** tracking of key health metrics such as **skin conductivity, heart rate, and step count**.
- Applied **AI-powered** algorithms to analyze the collected data and provide predictions for possible **seizures**
- Established Bluetooth (**BLE**) connectivity between **ALLY** and a wearable bracelet for near-perfect data transmission and retrieval.
- Leveraged robust **background services** to ensure uninterrupted functionality of the mobile application, even when the app is terminated or running in the background
- Architected an express JS TypeORM architecture leveraging many features like **Entities and Columns, Relations, Migrations etc...**
- Executed a real-time communication using **WebSockets**, enabling seamless data exchange between mobile application and Backend .
- Designed **CI/CD** pipelines leveraging the power of **Jenkins** plugins to ensure automation and smooth **Continuous Integration** and **Continuous Delivery** through different stages

Technologies: Flutter / Node JS / TypeORM / JavaScript / PostgreSQL / JPA

PROJECT: B2B SAAS PLATFORM

Leverages predictive analytics to help hospitals manage chronic neurological conditions, such as epilepsy and migraines. Using AI-driven algorithms, it analyzes real-time data from wearable devices.

TASKS:

- Spearheaded the development and launch of a **B2B platform** empowering hospitals and healthcare providers to monitor the health status of epileptic patients in real time.
- Enabled timely interventions by providing actionable insights through **advanced analytics** and **predictive tools**, improving patient outcomes by **25%** and reducing critical incidents by **30%**.
- Incorporated a **Kubernetes-based infrastructure** for the backend and database systems, enabling **decentralized** and **scalable** data storage across multiple pods. This architecture ensured **high availability** and **fault tolerance**.

Technologies: React / Node JS / MySQL / TypeORM / JPA / Docker / TypeORM / Junit

SPARK-IT: FULL STACK DEVELOPER

2021- 2022

Lisbon, Portugal

PROJECT: HAYS RECRUITING EXPERTS

Contributed in the development of Hays France platform, architecting a scalable Spring Boot-based backend with microservices to streamline recruitment and HR processes.

TASKS:

- Engineered and maintained a **Spring Boot-based** module for managing employee entry and exit processes, implementing complex **workflows** to ensure accurate attendance tracking.
- Leveraged **Spring Data JPA** and **MySQL** to design a robust data model, optimizing data retrieval and processing for high-volume **transactions**.
- Merged real-time **notifications** and audit **logging**, improving operational efficiency by **20%** and enhancing compliance with HR policies.
- Developed a role-based access control (**RBAC**) system using **Spring Security**, enabling granular permissions for HR managers, employees, and administrators to streamline access to attendance and **HR functions**.
- Blended **real-time notifications** via **Apache Kafka**, enabling instant updates for employee status changes and improving operational efficiency by **20%**.
- Built **RESTful APIs** to integrate the module with external HR systems (e.g., payroll and time-off management), ensuring seamless data synchronization and compliance with organizational policies.
- Applied audit logging and reporting features, enhancing traceability and supporting HR compliance audits with zero discrepancies.

Technologies: Spring boot / MySQL / Spring Security / Apache Kafka / JavaScript / Angular

PROJECT: JOB BOARD

Engineered a platform enabling recruiters to manage job postings, candidates, and their applications. It allows candidates to create their resumes, browse job openings, and apply to opportunities that interest them.

TASKS:

- Created a Spring Boot-based candidate management system, implementing RESTful APIs to streamline the handling of candidate profiles and job applications, improving recruiter efficiency by **25%**.
- Built an automated resume parsing module using NLP libraries and Spring Boot, extracting personal information (e.g., name, contact details) from structured and unstructured CVs with **95%** accuracy
- Designed an automated analysis engine for professional experiences, leveraging Spring Data JPA and **MySQL** to categorize skills and roles, reducing manual review time by **30%**.

Technologies: Spring boot / MySQL / Apache Kafka / JavaScript / Vue / NLP

EDUCATION

ENETCOM (NATIONAL SCHOOL OF ELECTRONICS AND COMMUNICATIONS)
Master degree (IT Software engineering)

Sfax , Tunisia
2019-2022

IPEIS (PREPARATORY INSTITUTION OF ENGINEERING STUDY)

Sfax , Tunisia

CERTIFICATES

- CERTIFIED KUBERNETES APPLICATION DEVELOPER (CKAD)