



# AYA HAMZA

Software engineering student

## CONTACT

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Iberia Tanger, Maroc

## SKILLS

### Programming Languages

Java - Python - Typescript - Javascript

### Frameworks

Angular - Spring boot - JEE - Flutter -  
Express.js - Scikit-learn - Flask

### Tools

Data Structures and Algorithms (DSA),  
System Design, CI/CD, Nginx, Architecture  
Microservices, Eureka, Kafka, Airflow, Design  
Patterns, les principe de conceptions SOLID,  
SCRUM, Gestion des projets par JIRA

### Databases

MongoDB, PostgreSQL, MySQL,  
Oracle, Redis

## EDUCATION

### Software and Intelligent Systems Engineering Program

### Faculty of Sciences and Techniques of Tangier(FSTT)

2022 - 2025

### DEUST - MIPC (Math Informatique Physique Chimie)

### Faculty of Sciences and Techniques of Tangier (FSTT)

2020 - 2022

### Baccalaureate PC (Physique Chimie)

### Ibn Battouta High School Tangier

2019 - 2020

## WORK EXPERIENCE

### Tanger Med Port Authority (TMPA)

Summer Internship

July 2022 - August 2022

[Github Link](https://github.com/Notify-Med) <https://github.com/Notify-Med>

- Design and development of a notification system based on *microservices* architecture, intended for a *SPA/PWA* application.
- Utilization of the *MERN stack* (MongoDB, Express.js, React, Node.js) for Full Stack development.
- Containerization using *Docker* for efficient deployment and optimal scalability.
- Integration of *WebSockets* for real-time communication and instant notifications.
- Use of *Git-Github* for version control, fostering collaborative development within the team.

### Fiverr UI/UX Freelancer

November 2023 - Present

As a UI UX Designer i create interactive prototypes, designing intuitive and appealing interfaces, and optimizing the user experience to maximize engagement. I bring a personalized approach to each project, taking into account your specific needs, target audience, and business goals.

## PROJECTS

### Smart Contract

[Github Link](https://github.com/project-smart-contract) <https://github.com/project-smart-contract>

Machine Learning - Blockchain - Spring boot - Angular - Devops

- The establishment of a **decentralized architecture** using **Blockchain**, based on microservices consumable from a *SPA/WPA* frontend web application using **Angular**.
- The application is designed to manage the tracking details of automobile insurance contracts through smart contracts.
- The insurance business management part is implemented in the backend with **Spring Boot** using a microservices architecture with **Eureka**.
- Communication between microservices is facilitated using **Kafka** for asynchronous messaging.
- Implementation of a **CI/CD** approach with **DevOps** tools such as **Git**, **Docker**, **Kubernetes**, and **Jenkins** to automate the software delivery process, ensuring continuous integration and continuous deployment for agile and reliable applications.
- Implementation of a recommendation system based on machine learning algorithms (Clustering: **K-Mean and Collaborative Filtering**) to recommend offers that better match customers' profiles and Integration of the model through Flask, along with the use of **Airflow** for pipeline automation and implementing **Active Learning**.
- The implementation of the **agile SCRUM** methodology via **Jira** enables transparent and collaborative project management, promoting iterative planning, effective communication, and real-time task visibility, thereby improving flexibility and the quality of deliverables.

### Fiverr Clone

[Github Link](https://github.com/mohammedlbakkali/front-end-freelancer) <https://github.com/mohammedlbakkali/front-end-freelancer>

MongoDB - Express.js - Angular - Node.js -Stripe - Socket.io

- Design and development of an SPA application similar to Fiverr using **MEAN Stack**.
- Integration of **Stripe** for secure payment processing. Utilization of Angular Materials for user interface components.
- Implementation of real-time chat with **Socket.io**.
- This project showcased my full-stack development skills and my ability to create a feature-rich web platform.