

Mohamed Mounib MADANI

Software engineer

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Tunis, TUNISIA

Software engineer passionate about the design of distributed and intelligent software architectures. My background combines solid expertise in programming, cloud computing, and system security with a growing interest in emerging technologies such as artificial intelligence. My goal is to contribute to applied research focused on integrating AI into next-generation software and network environments.

WORK EXPERIENCE

ENGINEER - FULLSTACK DEVELOPER

Since Oct 2025

Axess Logistique, Tunis TUNISIA

High-Traffic Logistics Platform Project

- Participated in the design and development of a logistics management application used by multiple agencies and partners, handling several thousand daily transactions.
- Contributed to software architecture, backend performance optimization, and the reliability of communication between microservices.
- Collaborated with product, DevOps, and data teams to ensure system scalability, security, and high availability.

Technologies : Php 7.4 / Symfony 5 / React v19 / MySQL / Docker / Git hub / AWS

WORK EXPERIENCE

INTERNSHIP - FULLSTACK DEVELOPER

From Mar to Sep 2024

Intercomm, Le mans FRANCE

Design and Development of an Innovative IoT Mobile Application

Designed and developed an innovative mobile application in the field of the Internet of Things (IoT). The app enables users to efficiently control and manage a variety of connected devices at home or in the office through an intuitive and user-friendly interface.

Leveraging the eWeLink API, the application integrates advanced features to enhance the user experience and provide intelligent control over IoT devices.

Technologies : React Native / Node JS / MongoDB / Docker / Git / Sonarcube

WORK EXPERIENCE

FULLSTACK DEVELOPER

From Mar 2023 to Mar 2024

Xenius consulting, Tunis TUNISIA

- Implemented a cloud-based architecture on AWS to optimize infrastructure costs and improve application availability.
- Deployed a real-time application performance monitoring system to detect and resolve performance issues proactively.
- Contributed to the migration of legacy systems to a microservices architecture, enhancing scalability and deployment flexibility for new features.
- Collaborated closely with business teams to analyze requirements and deliver tailored technological solutions.
- Actively participated in technology watch and innovation initiatives, identifying new opportunities to enhance IT processes and system efficiency.

Technologies : Laravel9 , VueJs2 , NuxtJs, AWS

WORK EXPERIENCE	<p>FULLSTACK DEVELOPER</p> <p>TANITWEB, Tunis TUNISIA</p> <p>From Nov 2022 to Mar 2023</p> <ul style="list-style-type: none"> • Optimized applications performance, reducing page load times by 30%. • Implemented a MVC architecture to enhance code structure, maintainability, and scalability. • Managed web projects from requirement analysis to technical specification drafting. • Developed front-end and back-end features using a variety of technologies to meet functional needs. • Collaborated with design teams to create a modern, intuitive, and user-friendly interface <p>Technologies : Php / NodeJS / MySQL / HTML5 / CSS3 / Javascript / Git</p>
WORK EXPERIENCE	<p>INTERNSHIP : AI - Machine Learning</p> <p>Digika, Tunis TUNISIA</p> <p>From Mar to Sep 2020</p> <p>Intelligent Counting and Gendering Solution (Machine Learning / AI)</p> <ul style="list-style-type: none"> • Developed a machine learning model for automatic face detection in images. • Trained the model on a dataset of 10,000 images, achieving 95% detection accuracy. • Implemented an automatic person-counting algorithm for images. • Collaborated with a team of developers to optimize application performance and reduce image processing time. • Documented the entire development process and reported on model results and performance. <p>Technologies : Tansorflow / OpenCV/ Face recognition / Raspberry pi</p>
WORK EXPERIENCE	<p>INTERNSHIP : Fiber Optic</p> <p>Tunsie Telecom, Tunis TUNISIA</p> <p>From Jun to Aug 2018</p> <p>Fiber Optic Networks & 4G – Network Supervision</p> <ul style="list-style-type: none"> • Supervised and maintained network operations to ensure maximum availability. • Collaborated with service providers to resolve connectivity issues. • Participated in network expansion projects to meet growing user demand. • Worked closely with technical teams to troubleshoot and resolve connectivity problems.
WORK EXPERIENCE	<p>INTERNSHIP : IoT</p> <p>GetWireless, Tunis TUNISIA</p> <p>From Mar to Mai 2017</p> <p>IoT Solution for Network Equipment Supervision</p> <ul style="list-style-type: none"> • Designed and implemented a communication architecture between network devices and the supervision application (SNMP) . • Developed specific features for alert management and notifications. • Conducted performance testing and optimization of the IoT supervision solution. • Created automated fault detection features and generated incident reports. • Collaborated with the development team to integrate new functionalities into the application.

EDUCATION AND CERTIFICATIONS

National Engineering Diploma – Software Engineering
ESPRIT, Tunis

Feb 2025

Bachelor's Degree – Computer Networks and
Telecommunications

Apr 2021

INSAT, Tunis

Scientific Baccalaureate

Graduated with Honors

Professional Certifications

- (META) React Basics
- (META) React Native
- (META) Advanced React
- (META) Programming with JavaScript
- (META) Django Framework
- (META) Version Control
- (AWS) Cloud Practitioner
- (GOOGLE) Foundation of Cybersecurity

EXPERTISE

Operating System

WINDOWS

LINUX

DataBases

MySQL

MongoDB

Postgresql

Programming

Java (Spring boot / Hibernate / Spring Data JPA / Spring MVC / Security)

C# (.NET CORE - ASP.NET - EF Core)

Javascript (Node JS / Express / React / Vue / Angular)

Php (Symfony / Laravel / Blade)

Python (Django / Flask / FastAPI)

Artificial intelligence / Machine Learning

DevOps

Git CI-CD / Maven / Jenkins / Docker / Kubernetes / AWS (EC2, S3, Lambda)

LANGUAGES

- Arabic – Native
- English – Professional proficiency
- French – Advanced proficiency
- Turkish – Professional proficiency

Strengths / Key Skills

- Leadership
- Innovation
- Complex problem solving
- Fast learner
- Autonomy / Self-motivated

Interests

- Sports: Football, Tennis, Chess
- Investments: Real estate, Cryptocurrency
- Travel: Visited 5 countries and around 20 cities

Links

- ☐ github.com/MedMounibMadani
- ☐ linkedin.com/in/mohamed-mounib-madani-0b26b911a/