

# Hammami Mahdi

Computer Science Engineering Student

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## Overview

Computer Science Engineering student at ENSI with strong skills in software development, machine learning, and DevOps. Experienced in building full-stack applications, automating CI/CD pipelines, and deploying scalable cloud systems. Solid background in data analysis, deep learning, and applied AI across real enterprise projects. Seeking opportunities in FinTech, AI Engineering, or Software Engineering.

## Education

### National School of Computer Science (ENSI)

Sept. 2023 – Present

Computer Science Engineer — Coursework: Algorithmic, OOP, Probabilities , machine learning , Deep learning, BI , analyse de données

### El Manar Preparatory Institute for Engineering Studies (IPEIEM)

Sept. 2021 – Jun. 2023

Coursework: Mathematics, Physics, Chemistry, Mechanics, IT

## Experience

### Sofrecom – Summer Internship

Jul. 2025 – Aug. 2025

- Engineered a GitLab release orchestration platform for multi-repository and monorepo environments using **NestJS, Angular, MongoDB, and Prisma ORM**.
- Integrated **Keycloak**-based OAuth2 SSO with GitLab REST APIs.
- Created a full **CI/CD pipeline** in **Jenkins**: unit tests with **Jest**, quality gates with **SonarQube**, build & **Dockerization**, pushed images to GitLab Container Registry.

### Centre Informatique Ministère des Finances (CIMF) – Internship

Jun. 2025 – Jul. 2025

- Developed visitor management system leveraging **Angular, Spring Boot, and PostgreSQL**.
- Implemented **role-based access control** (RBAC) and automated quality gates using **JUnit, Mockito, SonarQube**.
- Deployed the app via **ngrok**.

### ACTIA Engineering Services – Internship

Jul. 2024 – Sep. 2024

- Built a training management platform using **Angular, Spring Boot, MySQL**.
- Integrated survey-based feedback modules with RESTful APIs.

## Academic Projects

### InvestiCase – Investigation Case Manager

October – December 2025

- Containerized a full-stack **Angular + Spring Boot + MySQL** application using **Docker** for scalable deployment.
- Deployed the solution on **Microsoft Azure** using **App Service, Azure Database for Postgres, and Blob Storage** for static assets.
- Integrated an **RAG-based LLM chatbot** to assist in **legal decision-making** and case analysis.

### Carpooling B2B Mobile Application

Feb. – May 2025

- Cross-platform solution with **real-time chat** and gamification.
- Managed **concurrent trips** with scheduling, analytics dashboard, and user matching.
- Implemented **email-based authentication** with token verification.
- Engineered a **responsive UI/UX architecture**.

## Language and Technical Skills

**Languages:** Arabic (Native), French (Fluent), English (Fluent), Deutsch (Basic)

**Databases:** MySQL, PostgreSQL, SSMS, MongoDB

**Big Data / Analytics:** Hadoop, Power BI, SSIS

**Programming:** JavaScript, Java, Python, PHP, HTML, CSS

**DevOps / CI/CD / Cloud:** Jenkins, GitLab CI/CD, Docker,

**Frameworks / Libraries:** React.js, Angular, Node.js, Express.js, Spring Boot, Nest.js, TensorFlow, PyTorch, Pandas,

Docker Compose, Kubernetes, Ansible, Trivy, Linux, Azure

Scikit-learn

**Software / Tools:** Pack Office, Adobe Photoshop, StarUML,

Android Studio, Arduino IDE

## Certifications

- DevSecOps (Le Bon Développeur)
- MERN Stack (Opus Lab)

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| 2025 | • AI Fundamentals (IBM)                      | 2024 |
| 2024 | • Machine Learning Specialization (Stanford) | 2024 |