HAFID LAADIMI

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https://hafid-laadimi.vercel.app Hafid LAADIMI

ABOUT ME

Industrial Digital Transformation Engineering Student, passionate about cybersecurity, secure software development, and the digital optimization of industrial processes.

EDUCATION

- **Bachelor's in Industrial Digital Transformation Engineering**
  2023 – Present – ENSA Beni Mellal
- **Integrated Preparatory Classes**
  2021-2023 - ENSA Beni Mellal
- **Baccalaureate in Mathematical Sciences**
  2021 - Lycée, Ouarzazate

PROFESSIONAL EXPERIENCE

Apprenticeship in Cybersecurity & Development — **ZenithSoft, June 2025 – Present**

- **Development of an Automated Penetration Testing Platform :** Development of an automated penetration testing platform using Django (backend) and Next.js (frontend) for scanning web, network, phishing, and AI model vulnerabilities, with real-time report generation.
- **Modernization of a Secure Platform :** Complete upgrade of the platform to the latest versions of React and Node.js to fix critical security flaws.
- **Notification Microservice :** Development of an asynchronous notification service for a SaaS platform (Spring Boot, Batch, Kotlin).
- **Contribution to a Secure Electronic Journal :** Contribution to the development of a secure electronic journal using Spring Boot and React.

ACADEMIC & PERSONAL PROJECTS

Academic Projects — **2024 - 2025**

- **Decentralized Crowdfunding Platform (FYP) :** Development of a secure blockchain application with smart contracts (Solidity/Ethereum) and Web3 authentication. Backend: Express.js and MongoDB.

- **Optimisation Multi-Objectif d'une Politique d'Achat et de Gestion de Stock – FAO** :
  Python, Machine Learning, Mathematical Modeling
  - **Objective** : Determine an optimal multi-product purchasing, sales, and storage policy ensuring food security while minimizing costs, despite FAO price volatility.
  - **Modeling** : Design of a multi-objective optimization model (security vs. cost) with capacity, stock, and budget constraints.
  - **Solution** : Implementation and resolution of the model in Python using optimization libraries and Machine Learning algorithms for price forecasting and scenario analysis.
  - **Result** : Proposal of an optimized, reproducible food stock management policy adapted to market fluctuations.

- **Real-Time Bus Fleet Optimization & Tracking System :** Spring Boot, Kafka, GeoJSON
  - Prior modeling and optimization of the Vehicle Routing Problem (VRP).
  - Design of an event-driven architecture with Kafka for real-time data stream processing.
  - Implementation of a geospatial tracking system with GeoJSON for performance visualization and analysis.

- **Payment System Simulation** : Arduino, RFID, Supabase, React
  - **Hardware** : Arduino + RFID module for badge reading
  - **Backend** : Supabase for user and transaction storage
  - **Frontend** : React dashboard for management and visualization
  - **Features** : RFID reading → balance verification/update → real-time transaction tracking
  - **Stack** : C/C++ (embedded), REST API, Supabase, React

- **Real-Time Messaging Application**: Full-stack development of a secure mobile messaging app using WebSocket, Spring Boot, and React Native. Modular and scalable architecture.

TECHNICAL SKILLS

- **Frontend :** React, Next.js, React Native , Flutter
- **Backend :** Spring Boot, Django, Node.js, Express.js
- **Software Architecture :** Mircorservices , Space-based , Event-Driven , Monolithic , Monolithic
- **Cybersecurity :** Web/Network Pentesting, Blockchain Security, Reconnaissance, Metasploit, Nuclei, Nmap, Active Directory, Aircrack-ng, Burp Suite, Hashcat, Wireshark, Kali Linux Tools
- **Data Science, AI & Analytics** : Python, Machine Learning, Deep Learning , KNIME , Power BI, Excel
- **Databases & Backendless** : MongoDB, MySQL, PostgreSQL , Firebase , Supabase , Appwrite
- **Blockchain :** Solidity, Smart Contracts, Ethereum
- **DevOps & Tools :** Docker, Kubernetes , Git , CI/CD , Minio , Ansible , Terraform , Bash Scripting
- **Production & Logistics Management :** Production Management, Maintenance Management, Project Management, Logistics & Transport, Stock Optimization, Purchasing Policies
- **IoT & Industrial IT :** Arduino (C/C++), Sensors & Actuators, Mechanical Design (Catia V5), Robotics (Basics)
- **Electrical Engineering & Electronics :** Electrical Machines, Analog & Digital Electronics, ISIS Proteus, System Control
- **Industrial Automation & Instrumentation :** PLCs, Grafcet, Ladder Logic, PID Diagrams, Electrical Schematics, Regulation, SCADA Supervision
- **Simulation & Optimization :** Arena Simulation, MATLAB, Industrial Data Analysis, Process Optimization

LANGUAGES

Arabic , French , English