

OTHMAN SOHAB

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EDUCATION

Master's Degree in Computer Science Applied to Business Management

Aug. 2022 – Ongoing

EMSI - Ecole Marocaine des sciences de l'ingenieur

Main courses : Datamining, Big data, Deep Learning, Data warehouse, ERP and JEE

Two-Year University Diploma | Major: Physics

Sep 2020 – May 2022

Hassan II University: Faculty of Sciences Ben M'Sick

Morocco, Casablanca

WORK EXPERIENCE

Machine Learning on FPGA | Intern

August 2024 – October 2024

3D smart factory

- **Trained a Convolutional Neural Network (CNN)** using Python and Jupyter notebooks on the OCR-Dataset, containing lowercase and uppercase letters, as well as digits, to recognize printed characters.
- **Implemented the trained CNN model on FPGA hardware** using PYNQ, optimizing the system for real-time computer vision tasks in IoT and edge computing applications.
- **Enhanced system performance** by leveraging FPGA's parallel processing capabilities to accelerate CNN inference, ensuring low-latency, real-time character recognition in resource-constrained environments.

Web developer | Intern

July 2023 – September 2023

Blockchain Solutions MA

- **Migrated the "MaConference" platform** from React.js to Next.js, improving performance, SEO, and user experience.
- **Streamlined features** like article submission, registration management, and participation certificates for a seamless conference experience.

PROJECTS AND RESEARCH

Freelance Web Developer | portfolio: webmophers.org

2023 – Ongoing

Developed portfolio websites, interactive web apps, and custom management systems for clients.

Build a Social media Mobile Application | Java, Firebase

Designed and implemented core social network features, including user authentication, messaging, and post-sharing.

Mobile Quiz Application | Java, Firebase

Developed a mobile quiz app with Java (Android Studio) and Firebase, featuring real-time authentication, scoring, and anti-cheat measures.

Coffee Shop Website | Python, MySQL

Developed a coffee shop website with Django and MySQL, featuring online reservation and payment functionalities.

HACKATHONS AND COMPETITIONS

International eHealth Forum 2024 Hackathon

Oct 30 - Oct 31, 2024

Developed an AI solution to **enhance CT scans**, reducing X-ray exposure and MRI costs, with secure cloud storage and NFC card access for portable patient records.

ORBIS HOUSE HACKATHON

Sept 10 - Oct 8, 2024

Developed a **Solana blockchain arbitrage bot** with *TypeScript* and *Next.js* to automatically trade based on price differences between *Jupiter* and *DexScreener* (Two different DEXs).

MEDITERRANEAN SMART CITIES HACKATHON

May 2 - 4, 2024

Developed an **intelligent streetlamp monitoring system** with a *Java* mobile app, *Next.js* web interface, and real-time *Firebase* backend for automated management and monitoring.

PROFESSIONAL DEVELOPMENT

Python for Everybody

Coursera – *University of Michigan*

React Basics

Coursera – *Meta*

Introduction to Java and Object-Oriented Programming

Coursera – *University of Pennsylvania*

TECHNICAL SKILLS

Programming Languages: Python, C#, Java, C, C++, JavaScript, PHP, BASH scripting

Developer Tools: Git, Docker, Visual Studio, Android Studio, IntelliJ IDEA, Eclipse, SQL, PL/SQL, Oracle, SQL tuning, Hadoop, Hive, Pig.

Libraries & Frameworks: TensorFlow/Keras, Pandas, NumPy, OpenCv, ReactJs, Next.js, TailwindCSS, Django, JEE, Spring boot.

LANGUAGES

Arabic: Native, **English:** Intermediate, **French:** Fluent