

# ABDELMOUHAÏMEN SARHANE



I am currently dedicating my studies to image processing, multimedia, and artificial intelligence, with a keen interest in applying my expertise in Computer Vision. This field excites me due to its vast potential for real-world applications and technological innovations.

I am seeking a summer internship with the goal of progressing to an apprenticeship in 2024/2025.

@ abdo-sarhane@hotmail.com    +336 51 894 861    sarhane.com/    Toulouse  
in linkedin.com/in/Abdelmouhaimen    github.com/abdelmouhaimen

## EDUCATION

ENSEEIHT - DIGITAL SCIENCE : Image & Multimedia  
ENSEEIHT Engineering School

2022 - 2025    TOULOUSE, FRANCE

MPSI/PSI Preparatory Classes  
CPGE SAINT-BENOIT

2020 - 2022    ANGERS, FRANCE

## PROFESSIONAL EXPERIENCE

Internship: Energy Consumption in Matrix Computations  
Using Compressed Data

ENAC

2023 June - 2023 July    Toulouse, France

- C Programming: Utilized for assessing energy efficiency with PowerJoular
- Blaz Compressor: Explored innovative lossy compression for 2D floating-point arrays allowing direct computations on compressed data.
- Sports Analytics Application: Analyzed football match data to compute player movement heatmaps, demonstrating energy savings.

Restaurant polyval employee

TERRA BOTANICA

2021    Angers, France

## PROJECTS

Traffic Sign Image Classification

- Convolutional Neural Network (CNN) model for the classification of European traffic sign images
- Data preprocessing and augmentation efforts to enhance model training and accuracy
- Model optimization techniques to prevent overfitting and improve generalization
- Technologies Used: Python, TensorFlow, Keras, Matplotlib

2024    Enseeiht

Traffic light optimization with AI

- Optimization of traffic light control using deep learning and based on traffic density calculated from image processing and vehicle detection with cameras via OpenCV.
- Technologies Used: Python, Reinforcement learning, SUMO, TraCI

2023    Personal Project

RevEasy - Interactive Java/Swing learning platform

- Swing GUI: Navigation, content management, text formatting
- Quiz Mechanisms: Personalized review options, backend logic implementation.

2023    Enseeiht

CS50X PERSONAL PROJECT - WEB APPLICATION

- Database administration and web design
- Written in Python with PostgreSQL support using the Flask library
- View and edit Heroku databases with a more user-friendly interface

2021

## IT SKILLS

Programming:

Python, C++, Java, R, OCamL

Database:

MySQL, PostgreSQL

Data scraping and analysis tools:

OpenVINO, sklearn, pomegranate, scipy, tensorflow, nltk, openCV

Web Application:

Django-Flask, PHP, HTML, CSS, JS, REACT

Other:

Docker

Matlab, Scilab

Design:

Photoshop, Illustrator, After effects, Canva

## CERTIFICATIONS

IBM AI Engineering Professional  
Certificate

IBM

2023    Coursera

Python CS50P and CS50x  
Certificates

Advanced Python | Web Development

2022    edX-Harvard

## LANGUAGES

French    Fluent

English    Fluent

Arabic    Native

Japanese    Beginner

Spanish    Beginner

## INTERESTS

Science and technology

AI

Art

Design

Gaming

Sports

Martial arts

Photography