LADJOUZE NADJIB

nadjib.ladjouze@gmail.com

07 99 14 84 47

github.com/Ladjouze Nadjib

linkedin.com/in/nadjib-ilyes-ladjouze

Algiers

SKILLS

Programming Languages:
Python, HTML, CSS, JavaScript, Java, PHP, SQL

Frameworks:
Django, Laravel, React, Flutter

Languages:
French, Arabic, English

INTRODUCTION

Holder of a Master's degree in Intelligent Computer Systems (ICS), I am passionate about image processing and web development. My goal is to develop innovative solutions by leveraging advanced algorithms and machine learning techniques. Determined, motivated, and meticulous, I am committed to acquiring solid skills in image processing, which I integrate into high-performance web applications tailored to clients' specific needs.

EDUCATION

09/2023–09/2025 **Master's Degree in Computer Science – Intelligent Computer Systems (ICS)** **USTHB**

11/2020–06/2023 **Bachelor's Degree in Computer Science – Academic Computing (ACAD)** **USTHB**

PROFESSIONAL EXPERIENCE

02/2025 - 07/2025 **Web Platform for Retinal Image Analysis and Diagnosis – CDTA**
Design and development of a web platform for ophthalmologists to compare retinal images taken at different times, aimed at detecting potential changes and facilitating retinal health monitoring. The project includes modules for **preprocessing**, **segmentation**, **image registration**, and **content-based image retrieval (CBIR)**, using the **Django** framework.

02/2023 - 06/2023 **Web and Mobile Platform for Parking Spot Reservation – CERIST**
Design and development of a web and mobile platform allowing remote reservation of parking spots, with an integrated **online payment system** and **cancellation management**, using **Laravel** and **Flutter**.

Since 07/2025 **Web Platform for an Architect – MajesticDesign**
Design and implementation of a showcase web platform enabling **interactive presentation of architectural projects** and **client contact**, developed using the **Django** framework.

ACADEMIC PROJECTS

Python **Soil and Climate Characteristics Analysis**
Development of an application for **preprocessing**, **statistical analysis**, and **data visualization** related to soil and climate characteristics, implementing and comparing regression algorithms **(Random Forest)** and clustering algorithms **(CLARANS, DBSCAN)**.

Python **Object Detection and Position Estimation**
Development of a computer vision system including **camera calibration**, **object detection**, and **triangulation**, using **OpenCV** and mathematical models to ensure precise tracking and reliable position estimation.

Python **E-commerce Website Development**
Design and development of a web platform allowing **product ordering**, with **catalog management**, user accounts, and a **shopping cart system**, developed using the **Django** framework.

Java **Multiple Knapsack Problem Optimization**
Design of exact algorithms **(BFS, DFS)** and heuristic approaches **(A*)** for solving the **multiple knapsack problem**, followed by the implementation of metaheuristics **(genetic algorithms, Bee Swarm Optimization)** for optimization. Conducted a comparative analysis based on the number of explored nodes, execution time, and solution quality, with results visualized through a simulation interface.