

Abdelghafour BENKHELIFA

Software & Al Engineer ①

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SOCIAL

in Abdelghafour BENKHELIFA

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PROFILE

Passionate about crafting innovative digital experiences, I specialize in Al-driven solutions, mobile development, and backend systems. With a deep interest in astronomy, I bring curiosity and a love for exploration into every project I undertake. My journey has taken me from freelancing to entrepreneurship, where I've built both soft and hard skills that drive my career forward. I'm always seeking to learn, grow, and help businesses flourish by turning ideas into impactful digital realities.

EDUCATION

Baccalaureate-Maths

Hadj Allal Ben Bitour High School

2018 Software Engineering Degree

University of Science and Technology Houari Boumediene 2018-2022

Visual Computing Master's Degree University of Science and Technology Houari Boumediene 2022-2024

SKILLS

Technical Skills Soft Skills

Al, Machine & Deep • Problem-Solving Learning

 Communication Computer Vision • Team Leadership

Embedded AI Developement Project

Management Advanced NodeJs Time Management

 Python • Strategic Planning JavaScript

 Critical Thinking MongoDB

 Client Relations Flutter Entrepreneurship

UI/UX Design

Adobe XD & Figma

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CERTIFICATES

Full Stack Developement Track **Udacity Certificate Of Completion** Apr 2020

AI HOMECAMP

Limitless Learning Certificate Of Completion Jul 2020

NodeJs

Micro Club Nov 2020

UI / UX Design

Udemy Nov 2020

Dart Language

Udemy

Dec 2021 Stacked Day Trainer

GDSC USTHB March 2022

JumpStart 2nd place certificate

Junction Sep 2022

Galactic Team Member certificate from NASA

Nasa Space App Challenge Oct 2022

LANGUAGES

 English French Arabic

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INTERESTS

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Football Startups Travel

A

EXPERIENCE

2016-2021

2018-2020

Volunteer Association Imam Ali Ibn Abi Taleb Mousque

Founder Of Manipulator Tech Blog Tech News Blog And E-shop

FullStack dev TraineeShip

Micro Club March 2020 - Nov 2020

IT Department Member

Micro Club Feb 2021 - March 2023

UI & UX Manager Micro Club

External Relations & Sponsorship Department Leader

Micro Club March 2022 - Nov 2023

Oct 2021 - March 2023

NodeJS Trainer -Stacked Day Event-**GDSC Club**

2nd/20 place in Hack!T

June 2022

Sep 2022

March 2022

CSE Hackathon

May 2022

Digital African Summit 2022 DAS 3 days at the center of the African ecosystem

TOP 10 in AI HACK TUNISIA InstaDeep organized the largest ML Hackathon in Africa and the Middle

East in Tunisia, in partnership with Google, more than 1000 participants

Aug 2022

2nd/20 place in JumpStart Junction challenge Junction Sub-Hackathon challenge

Nasa Space App Challenge Organizer & Sponsorship responsible

The hackathon organized by Micro Club the local lead of the competition in Algeria Oct 2022

LinkedIn Local Algiers Organizer LinkedIn Local Algiers Event

Jan 2023

Micro Hack Organizer & Sponsorship responsible The first hackathon of Micro Club Feb 2023

Al Intern - Groupe Adaming Algerie Creating an AI model for worker recognition and communication, and

Visual Computing & Al Intern - Center of Research in

deploying it on the Pepper robot. Jul 2023 - Sep 2023

Astronomy, Astrophysics, and Geophysics (CRAAG) Developing an Al System for Detection & Classification of Bright Meteors Captured by AllSky Cameras Feb 2024 - Jun 2024

Satellite Development Center X Startup Ministry Partnership Guest

A Partnership between the CDS and the Minstry of Knowledge Economy, Startups and Micro-enterprises, were i was invited as guest for the great job we did in NASA Space app challenge organization March 2023

PROJECTS

LOCDZ

Locdz is a platform that connects car rental agencies with clients, facilitating seamless coordination between the two. Technologies Used: HTML, CSS, JavaScript, NodeJS, Express, EJS,

SETRAM

SETRAM APP is a comprehensive tramway service application that offers a range of features including online E-Ticket purchases, ticket scanning for validation, QR code-based penalty enforcement for controllers, recommendations for popular tourist destinations, optimal route suggestions, and emergency alerts.

Technologies Used: Flutter, Firebase, Cloud Firestore

Habito

Habito is a fun gamified automated habbit tracker, it uses Realtime wearables data in order to track our customers habbit. Like any habbit app, you can use a habbit to track and change. Habito tracks your habits automatically so that saves you the trouble of having to enter your health data (calories taken, sleep, hydration) which can get tedious when repeated daily . It takes all those metrics into account and sets goals for your habits tailored to your body, goals, and daily activity.

Technologies Used: VueJS, NodeJS, MongoDB, Terra API

SokoBan Game

The Sokoban Game app is designed to challenge players with warehouse puzzles where the goal is to move boxes to designated storage locations. Utilizing advanced search algorithms such as A*, the app efficiently calculates optimal paths and navigates around obstacles to enhance gameplay. Players must strategically push boxes through a maze-like environment, overcoming various challenges to achieve their objectives.

Technologies Used: Python, PyGame

VEEZ

A mobile app designed to teach kids languages through a fun, interactive, and visually engaging approach. Leveraging AI, computer vision, and AR technology, this app enhances the learning experience. Developed during the AI Hack hackathon, where we competed against 250 teams from the MENA region, we secured first place in the qualifying rounds and reached the top 10 in the finals.

Technologies Used: Unity, Flutter, Python, OpenCV, PyTorch

Vegetable Classification Al System Starting with the collection of images and data of different

vegetable types. The project involved annotating the gathered data to create a well-labeled dataset, which was then used to train classification algorithms. The final system accurately identifies and categorizes vegetables based on the trained model, enhancing efficiency in sorting and managing vegetable inventory. Technologies Used: Python, OpenCV, Tensorflow

Pepper employees recognition system The Pepper Worker Recognition System was a project developed

for Adaming Algerie. It involved creating a face recognition system to identify employees within the company. This system was integrated into a Pepper robot, enabling it to greet and track employees as they entered the headquarters.

Technologies Used: Python, OpenCV, Tensorflow, FaceNet, ROS

Dinar is a fintech mobile app developed during the Junction

Dinar

Hackathon. The app allows users to manage various types of accounts, from savings to investments. It features an Al-driven recommendation system that tracks and analyzes your spending, highlighting areas where you may be overspending or exceeding preset limits. Additionally, Dinar includes a chatbot that offers personalized recommendations for future investments and savings strategies. Technologies Used: React, Python, Tensorflow, NodeJs

Cheating Detection During Exams

Real-time cheating detection during exams was achieved with an Al system developed and deployed on a Raspberry Pi. The project

involved collecting video data of students during exams, annotating the footage, and implementing a model to detect cheating behaviors. This involved fine-tuning the YOLO Tiny model to enhance performance on embedded devices, ensuring accurate and efficient detection. Technologies Used: YOLO, Python, Roboflow

AllSKy Cameras Developed an advanced meteor detection system leveraging

Detection & Classification of bright Meteors Captured by

deep-learning techniques. The project involved creating a comprehensive dataset and experimenting with models such as Faster RCNN with ResNet and Swin Transformer. Refined detection accuracy through iterative model training and evaluation. Designed an intuitive Graphical User Interface (GUI) for testing meteor detection in images and videos, supporting various model configurations and multi-event detection across synchronized video sources. Technologies Used: FasterRonn, ResNet, Transformers, SWIN, Python,

Roboflow, PyTorch, StreamLit