

NOUR EL HOUDA LABIDI

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SUMMARY

AI and web development enthusiast with a strong background in computer science and a passion for creating innovative solutions. Dedicated to exploring the intersection of AI and web technologies, with a focus on driving meaningful impact through research and collaboration. Seeking opportunities to contribute to projects that combine creativity and technical expertise.

EDUCATION

Master's Degree in Computer Sciences

National School of Computer Sciences (ENSI)

Sep 2021 – Dec 2023

Bachelor's Degree in Computer Science

Higher institute of multimedia arts (ISAMM)

Sep 2018 – Jun 2021

EXPERIENCE

Instructor

iTeam University

Jan 2024 – Present

- Delivered comprehensive courses on Web Technology and Python programming for engineering students.
- Focused on core topics such as front-end and back-end web development, JavaScript, TypeScript, RESTful APIs, and Python libraries like NumPy, Pandas, and Flask.
- Led interactive workshops and guided students through real-world applications of web technologies and Python.
- Helped students deploy web applications and build portfolio projects.
- **Technologies Used: Python, Node.js, Express.js, MongoDB, Angular.**

Master thesis internship

LARIA research Unit (ENSI)

Jan 2023 – Dec 2023

- Bridging the gap between deaf students and Computer Science Terminology: Creating an Arabic Sign Language (SL) Interpreter for Computer Science Education.
- Conducting research on scientific papers to understand SL and its challenges, examining Arabic SL to identify differences from other sign languages and assess its difficulty, Studying interpreters in various SL and Analyzing this information to determine the best approach for training a model to create a successful interpreter
- Gather a comprehensive corpus of 1,000 Arabic words related to IT terminology
- Collaborate with a multinational team of experts to develop innovative signs that effectively represent the words in the corpus.
- Leading a team to record the innovative signs using the Kinect Azure tool
- Cleaning and preprocessing the data, selecting and training the model, evaluating its performance, and fine-tuning it to improve accuracy and effectiveness.
- **Technologies Used: Python POO, PyTorch, MediaPipe, OpenCV, and FFmpeg, 3DCNN model.**

Instructor

Higher institute of technology (ISI)

Sep 2022 – Jan 2023

- Delivered comprehensive courses in algorithms to engineering students, tailoring lessons to various skill levels. Focused on fundamental concepts such as sorting, searching, and graph algorithms, with a strong emphasis on algorithmic complexity.
- Incorporated real-world applications to enhance understanding and provided hands-on coding sessions and interactive problem-solving workshops.

Mobile development intern

Ctama insurance

Jan 2021 – Jun 2021

- Developed a mobile application using Flutter for an agriculture insurance company, providing a user-friendly interface for policy management and claims processing.
- Leveraged Firebase for backend services, including authentication, real-time database, and cloud storage
- **Technologies Used: dart, flutter, firebase.**

ACADEMIC PROJECTS

Rental Car Platform Development

Tools: Symfony, Twig, HTML, CSS, Bootstrap, JavaScript, MySQL

- Built a rental car platform allowing users to browse, reserve, and manage car rentals.
- Designed responsive user interfaces for customers and admin panels, improving user experience.
- Developed a booking system to handle car availability checks, reservations, and payment processing.

Training Management Web Application

Tools: Express.js, React, MongoDB, Node.js, REST API

- Developed a full-stack web app for managing training programs, allowing admins to create, edit, and delete training sessions.
- Implemented backend logic using Express.js and Node.js, including REST APIs for session handling and user management.
- Built a responsive React frontend with dynamic forms for creating and registering for training sessions.

Student Grade Management System

Tools: Django, HTML, CSS, postgresql

- Built a web application that allows teachers to manage student grades efficiently.
- Django Admin to enable easy data entry and management (add, update, delete).
- Used postgresql as the backend database.

Cleaning data and improving data quality for Netflix

Tools: Python, ML algorithms, Power BI

- Collecting and exploring Netflix dataset.
- Cleaning the data by handling missing values, duplicates, and outliers.
- Applying machine learning algorithms to analyze the data.
- Visualizing insights and trends using Power BI to better understand user behaviors and patterns.

SKILLS

Programming Languages: Python, JavaScript, PHP, Java, C#, R

Frameworks & Libraries: Django, Express.js, React, Node.js, PyTorch, TensorFlow, Keras

Databases: MongoDB, MySQL, PostgreSQL, Firebase, Neo4j, postgresql

Tools & Platforms: Git, Docker, REST API

Soft Skills: Strong Communication, Teaching Skills, Team Management

LANGUAGES

Arabic: Native

English: Professional working proficiency

French: Professional working proficiency