

# Ilyes Bendaikha

Lgt 16-BT G 03 Cité des 100 logements Khalfaoui, cité Ennasr, Ouargla, Algeria, 30022

+213 (655) 46-57-89 | [ibendaikha9@gmail.com](mailto:ibendaikha9@gmail.com) | [ilyes.bendaikha@univ-constantine2.dz](mailto:ilyes.bendaikha@univ-constantine2.dz) | [Ilyes4CODE](#) | [ilyes-bendaikha](#)

## Education

University Constantine 2, Abdelhamid Mehri

MASTERS' IN ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Constantine, Algeria

2024 - Present

University of Kasdi Merbah (UKMO)

BACHELOR OF COMPUTER SCIENCE

Ouargla, Algeria

2021 - 2024

- Thesis title: "Dalti: A Framework for Queuing Management System"
- Supervisor: Dr. Khadra Bouanane
- Thesis grade: 19.5/20 (Excellent)
- Acquired Skills:
  - Thesis:
    - ★ Formalization, Design, and Development of Real-Time Queuing Systems,
    - ★ Software Engineering,
    - ★ Database Design and Management,
    - ★ Full Stack Web Development,
    - ★ Mobile Application Development,
    - ★ Unified Modeling Language (UML),
    - ★ Entrepreneurial Experience (Startup),
    - ★ Problem Solving,
    - ★ Critical Thinking.
  - Curriculum:
    - ★ Foundations of Computer Science,
    - ★ Mathematics for Computer Science,
    - ★ Computer General Purpose Programming,
    - ★ Algorithm Design and Analysis,
    - ★ Computer Operating Systems,
    - ★ Computer Networks and Security,
    - ★ Software Engineering,
    - ★ Database Design and Management.

## Internship Experience

Sonatrach · IT Intern (2022)

- Contributed to the maintenance and troubleshooting of IT systems.
- Managed and optimized data using database systems.
- Supported network setup, monitoring, and issue resolution.
- Assisted in system updates and software installations in collaboration with teams.

Setram · IT Intern (2022)

- Maintained IT system operations and conducted routine troubleshooting.
- Assisted with software installations and system upgrades.
- Worked collaboratively on IT infrastructure maintenance.

## Technical Skills and Expertise

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<b>Libraries and Tools</b>	Requests (Expert), Django (Expert), Django Channels (Expert), JavaFX (Expert), WebSocket (Expert), PyQt (Expert), scikit-learn (Proficient), NumPy (Proficient), Matplotlib (Proficient), Pandas (Proficient)
<b>Programming</b>	Python (Expert), JavaScript (Expert), Java (Proficient), C (Competent)
<b>Databases</b>	SQL (Expert), MySQL (Expert), PostgreSQL (Expert), MongoDB (Expert), SQLite (Expert), Oracle (Competent)
<b>Back-end</b>	Django (Expert), REST API (Expert)
<b>Front-end</b>	HTML5 (Expert), CSS3 (Expert), JavaScript (Expert)
<b>Operating Systems</b>	Microsoft Windows (Expert), Linux-based Operating Systems (Expert), Android (Expert), iOS (Proficient)
<b>Miscellaneous</b>	LaTeX (Expert), Jupyter (Expert), Kaggle (Expert), Google Colab (Expert), Shells (Bash, PowerShell, etc) (Expert), Adobe Photoshop (Expert), Adobe Illustrator (Expert), Adobe Premiere (Expert), Adobe After Effects (Expert), MS Word (Expert), MS Excel (Expert), MS PowerPoint (Expert)

## Projects

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**Design and Development of a Library Management System**

**Design and Development of a Marketplace System**

**Design and Development of a Travel Agency Management System**

**Full Stack Design and Development of a Sports Registration Platform**

**Design and development of a custom Enterprise Resource Planning (ERP) system to streamline financial and project management processes.**

**Smart Parking AI System – Developed an intelligent parking management application using AI to detect available parking spaces in real time. Designed and implemented both the frontend and backend, integrating computer vision models for automated parking slot detection.**

**AI-Based Drilling Depth Detection System for Oil Reservoirs (Sonatrach) – Developed an AI solution to analyze drilling data and estimate reservoir depth to assist in petroleum exploration. Built the full-stack application including backend services and frontend interface with integrated machine learning models.**

**Real-Time Sign Language Recognition – Built an AI-powered application capable of recognizing sign language gestures in real time using computer vision. Developed the complete frontend and backend architecture and integrated the trained AI model for live gesture detection.**

## Competitions & Challenges

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**Ranking: 3rd /50**

*Oran, Algeria*

**TELEHACK HACKATHON**

2024

**Hackathon Fields:**

- **Telecommunication:** Proposed a solution to optimize Algeria Telecom’s internet infrastructure, focusing on network load balancing and service quality improvement.
- **Web Development:** Built a user-friendly web application that facilitates direct communication between Algeria Telecom and its customers, enabling efficient issue tracking and resolution.
- **Cybersecurity (CTF):** Identified vulnerabilities in a simulated web environment, applied cryptographic techniques to uncover hidden flags, and strengthened our understanding of ethical hacking.

**Ranking : 3rd /25**

*Tlemcen, Algeria*

**HACKFEST HACKATHON**

2024

**Hackathon Fields:**

- **Arduino:** We built an intelligent parking system with automatic vehicle detection, aiming to optimize parking space usage and enhance efficiency.
- **Web Development:** Developed a web and Android application for university students to facilitate interaction with university management. The platform allows students to publish and access lessons, as well as create and join chat groups.
- **Cybersecurity (CTF):** The challenge involved finding 10 flags in a Linux machine using exploitation techniques in Kali Linux. We successfully found 9 out of 10 flags.

**Soft Skills Certification**

*Ouargla, Algeria*

**WORLD LEARNING ALGERIA**

2022

This certification program focused on the development of essential soft skills, including effective communication, teamwork, problem-solving, and leadership. Participants engaged in interactive workshops and practical exercises designed to enhance adaptability, emotional intelligence, and professional growth. The program also emphasized critical thinking, conflict resolution, and time management, equipping participants with the necessary skills to thrive in both academic and professional environments.

## General Skills, Hobbies, and Interests

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**Languages** Arabic (Fluent), English (Proficient), French (Competent)

**Computing** Computer programming, Scripting, Graphic design, Audio design, Video design

**Art and Entertainment** Drawing, Music, Gaming

**Challenging** Solving puzzles and challenges

**Voluntary** Internet non-profit and open source collaboration, Tech Team Management

## Extracurricular Activity

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**Club de Nouvelles Technologies d'Information et Communication (CNTIC)**

*CNTIC LinkedIn Page*

**CLUB LEADER**

*2022 - 2024*

- Led multiple scientific and tech-driven events over two years.
- Managed and coordinated teams in national programming Hackathons, securing two national wins.
- Fostered innovation and teamwork within the club, driving success in various initiatives.