

Mahassen Drira

Software Engineering Student



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Sfax, Tunisia

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Profile

Motivated Software Engineering student with a strong passion for Data Analysis, Artificial Intelligence, and IT systems, with foundational knowledge of Python, Java, and database management. Quick to learn and highly adaptable in collaborative environments, demonstrating strong problem-solving and communication skills.

Education

2023 – Present	Software engineering degree <i>International Institute of technology (IIT)</i>
2021 – 2023	Preparatory Cycle for Engineering Studies (Physics Chemistry PC) <i>FSS - Faculty of Sciences, Sfax</i>
2017 – 2023	Baccalaureate in Experimental Sciences <i>Mahmoud Megdich High School</i>

Professional Experience

03/2025 – present Sfax, Tunisia	Full-Stack Development Intern (Final Year Project – PFA) <i>Freedom of Dev</i> <ul style="list-style-type: none">Developed web and mobile features using MySQL, Angular, Laravel, Flutter, and Android Studio.Built responsive UIs and integrated RESTful APIs for seamless data handling.Contributed to agile (Scrum) workflows, code reviews, and debugging.Strengthened skills in architecture design, Git, and real-world problem-solving.
07/2024 – 08/2024 Sfax, Tunisia	Front-End Development Intern <i>Prestacode</i> <ul style="list-style-type: none">Designed and implemented front-end features using Angular and TypeScript, focusing on performance and user experience.Integrated APIs and handled dynamic data rendering across multiple views.

Projects

12/2024 – 02/2025	Building Insurance Claims Prediction Model <i>Team Project – Machine Learning Python, Scikit-learn, Pandas</i> Developed a machine learning model to predict insurance claims based on 12 structural and location features. <ul style="list-style-type: none">Optimized and evaluated with performance metrics.Dataset: <i>train_insurance.csv</i> (5,012 samples), <i>test_insurance.csv</i> (2,147 samples).Target Variable: Claim (Binary: Yes/No). GitHub Link: Data Mining Project
10/2023 – 05/2024	Game and field Simulation <i>Team Project – VR Driving Simulation Unity, C#, Fusion 360, Oculus Quest 2</i> <ul style="list-style-type: none">Developed an interactive driving simulation delivering realistic in-game sensations using Oculus Quest 2 VR headset.Programmed game logic and interactivity with C# in the Unity engine.

- Designed 3D game assets and field elements using **Fusion 360** for an immersive experience.
- Focused on enhancing user immersion and precision in virtual driving practice.

10/2020 – 05/2021

Trash Intelligent – Smart Recycling Machine

Team Project | Python, OpenCV, AI

- Developed an AI-driven system to detect and classify waste using **computer vision** and **machine learning**.
- Implemented real-time **object detection**, **facial recognition**, and waste sorting with **Python** and **OpenCV**.
- Gained experience in **image processing**, **AI integration**, and hardware-software systems.

Languages

Arabic

Native

English

B2 (Duolingo English Test)

French

B1

Spanish

A2

Skills

Data Science

Machine Learning, Deep Learning (TensorFlow, Keras), Data Mining (Scikit-learn)

Data Analysis & Visualization

Pandas, NumPy, Matplotlib, OpenCV, Seaborn

Machine Learning Libraries & Techniques

Scikit-learn, TensorFlow, Keras Regression, Classification, Clustering

Programming Languages

Python, C, C++, Java, JavaScript, PHP, C#, .NET, Arduino

Database Management

SQL, Oracle, MySQL, SQLite

Web Development

HTML, CSS, WordPress, Laravel, ReactJS, Angular

Mobile Development

Flutter, Andoird Studio, MIT App Inventor

Game Development

Unity, C#

Business Intelligence (BI)

Power BI

Enterprise Resource Planning (ERP)

Odoo

Operating Systems

Windows, Linux

Business Process Management (BPM) & ETL Tools

Bonita BPM, Talend

Modeling & Design

UML

Version Control

Git, GitHub

Graphic Design

Adobe Illustrator, Adobe Photoshop, Adobe XD, Figma

Video Editing & Motion Graphics:

Adobe Premiere Pro, Adobe After Effects

International Scholarships

2025

Thomas Jefferson Scholarship Program (TJSP)

Semi-Finalist

- Selected among top 10% of 1,200+ applicants for a U.S. exchange program focused on computer science and leadership.

2021

SUSI for Student Leaders Program

Semi-Finalist

- Chosen among top 8–10% of 1,500+ applicants for a U.S. program focused on economics and entrepreneurship.

Associative Experience

2024 – present

AIESEC in Tunisia- Local Committee Sfax

Exchange and International Relations Team Leader

- Managed exchange participants and coordinated with international partners to promote Tunisia's volunteering programs.
- Created content and ensured smooth experiences for foreign participants, showcasing local opportunities and facilitating cross-cultural exchange.

2024 – present

Scouts Tunisia- Sadeka

Tech Trainer

- Mentored youth teams on Arduino and robotics for competition events.
- Focused on STEM education and interactive learning through microcontroller-based problem-solving.

2021 – 2024

Sfax, Tunisia

First Skills Club

Robotics Coach Assistant

- Led the implementation of physics concepts, Arduino hardware, and programming logic to mentor over 50 youth (ages 12–18) in robotics.
- Delivered hands-on training in sensors, microcontrollers, and basic algorithm design.