

# AMINE MALEK

Computer Science Student with a Passion for 3D

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## EDUCATION

Bachelor of Science (Computer Science)  
International University of Applied Sciences (Berlin)

Oct 2023 – Ongoing

- Developing a strong foundation in Data Structure, Algorithms, and Database Systems.
- Learning React with Express for web app development, focusing on building modern and scalable applications.
- Working on projects using Java to develop robust and efficient software solutions.
- Actively participating in research on Machine Learning, focusing on data analysis and predictive modeling.

React   Express   Java   Machine Learning

High School Graduation Degree  
Lycée Secondaire Ksibet El Mediouni

Sept 2018 – June 2022

- Informatics centered studies (8 hours of data, IT, and algorithms weekly).
- First introduction to the following programming languages and tools: Python, PHP, SQL, HTML, CSS, etc.
- Took German as an optional subject.  
→ Currently pursuing an accelerated German course to get to B2 level.

TOEFL Certification  
Test of English as a Foreign Language

2022-2023

- Achieved C1 level - Advanced proficiency in English.
- Demonstrated strong communication skills in English through comprehensive testing.

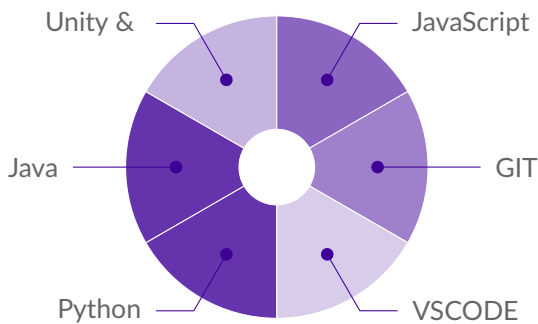
## VOLUNTEERING

Junior Chamber International member  
JCI Ksibet El Mediouni

Sept 2020 – Ongoing

- Help organizing a blood donation campaign.
- Assist during the Covid-19 vaccination events.
  - Check the system for registrations at the front desk.
  - Help direct the attendants to their respective vaccination zones.
- Participate at crowdfunding, cleaning and tree planting events.
- Assist at the "National Festival of the Carpet of Ksibet El Mediouni".

## SKILLS AND PROGRAMMING



## EXPERIENCE

Apollo Cypher

- Developed a Java program, Apollo Cypher, for encrypting and decrypting text files using the AES algorithm.
- Contributed to the implementation of the AES encryption and decryption functionality.
- Utilized Java's file handling capabilities for reading and writing text files securely.

Svelte   Java   AES Algorithm   Encryption

Wasalni-Transportation App

- Contributed to the development of Wasali, an app revolutionizing local transportation services for taxis, trains, and buses in my hometown.
- Utilized Svelte, TypeScript, and Capacitor for cross-platform development, with Cockpit as the backend database.
- Integrated OpenStreetMap for easy navigation.

Svelte   TypeScript   Capacitor   Cockpit app

Sign2Morse

- Contributed to the development of Sign2Morse, a real-time project utilizing the Mediapipe library for hand gesture recognition and OpenCV for live camera capture.
- Implemented functionality to translate hand gestures into Morse code in real-time.
- Collaborated with team members to optimize performance and accuracy of gesture recognition.

Python   OpenCV   MorseCode   MediaPipe

2D Game Development

- Developed a 2D game using Unity and C#.
- Designed game mechanics, user interface elements, and level layouts.
- Implemented player controls, enemy behavior, and game logic using C# scripting.

C#   Unity   2D   GIT LFS

SpartaTunes

- Developed an innovative Java application, "SpartaTunes," which converts numerical sequences entered by users into unique musical compositions.
- Orchestrated the playback of musical tracks corresponding to specific number patterns provided by users.
- Leveraged Java's audio libraries to handle complex sound processing and user interface functionalities.

Java   Audio Processing   User Interaction

## STRENGTHS

Hard-working   Reliable   Passionate   Self-driven  
IT   Programming   Web Design

## LANGUAGES

Arabic  
English  
French  
German

