

# Christelle Abou Rjeily Helou

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## SUMMARY

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Graduate in Artificial Intelligence and Physics, with proven and tested self taught skills in coding, research and data collection.

## EDUCATION

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### **MSc in Artificial Intelligence | University of West England Bristol**

September 2023 - September 2024

Grade Classification: First-Class Honours Degree; Distinction

### **BSc in Physics | Notre-Dame Louaize University**

Sep 2020 - May 2023

CGPA: 3.31/4; Honours: On the Dean's List

Vice-President of the NDU Astronomy Club

### **Lebanese Baccalaureate in General Sciences | Ecole des Soeurs de la Charité Besancon**

Sep 2004 - Jun 2020

## WORK EXPERIENCE

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### **Home Bargains**

Oct 2023 - Present

Part-time Retail team member.

Locations: Bristol - Brislington and Petherbridge Way (Muller Road)

### **SIIRA Company Internship**

June 2023 - August 2023

Worked on a prompting and AI Project: JobGPT.

### **Airport Internship**

May 2023

Overview of the work done in the radar room and the tower with a full report describing it.

### **Pharmacist Assistant**

Sep 2020 - Jan 2021

Data Entry; dispensing drugs to the patients; controlling the inventory; supervising expiry dates.

## ACTIVITIES

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### **● NASA SpaceApps Challenge**

Oct 2022 - Oct 2023

Topic : Make a MoonQuake Map (Team Abberation)

Years : 2022 and 2023

Achievements : Winners of the golden local award, honourable mentions globally (top 30s)

### **● Vice President of Astronomy Club at Notre Dame Univesity Louaize**

2021 - 2023

Organized and carried out astronomy activities such as stargazing, movie and quiz nights, observatory visits, and enriched the community with scientific astro knowledge)

### **● Computer Science Summer Camp**

Jul 2019

Main Topic : Python

- **Model United Nations** Mar 2019  
Topic: Agriculture - Egypt
- **Institute of Citizenship ADYAN** 2017 - 2019  
Engaged in a non-formal education program that aims to foster the concept of inclusive and active citizenship; worked on expanding knowledge regarding diversity and accepting others.
- **Volunteer | SOS children's village Lebanon** Dec 2017  
Responsibilities : collected and organized the donations and took care of the children.
- **School Social Program** 2015 - 2020  
Responsibilities : worked with donations and unfortunate men and women, elders and children.  
Achievements : tutored an exchange student with disabilities in order to pass class 9.
- **Mixed Martial Arts and Brazilian Jiu Jitsu | Team Braga Lebanon**

## SCHOLARSHIPS AND AWARDS

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- **NASA Space Apps Challenge Global Finalists Honorable Mentions** 2023
- **Volunteering Certification by Caritas Lebanon** 2023
- **Notre Dame University - Louaize Honoring Ceremony for success in NASA Space Apps Challenge** 2023
- **NASA Space Apps Challenge Global Finalists Honorable Mentions** 2022
- **Academic Scholarship at Notre Dame University - Louaize** 2020 - 2023
- **Model United Nations** 2019

## PROJECTS

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- **Seismic Detection Across the Solar System.** [2024] This project was conducted to identify seismic quakes within the noise in real data from the Apollo missions and the Mars InSight Lander using classical machine learning approaches such as convolutional neural network. This project was a part of the NASA SpaceApps Challenge 2024. (October 2024)
- **Masters Dissertation: Sentiment analysis.** [2024] This research was conducted for MSc Artificial Intelligence at University of West of England - Bristol. The main objective behind it is to use ANFIS to evaluate text for the purpose of sentiment analysis. (September 2024)
- **Music Recommendation using Hybrid Systems.** [2024] This project was conducted under the Knowledge and Hybrid systems module in MSc Artificial Intelligence at University of West of England - Bristol. The main objective behind it is to implement a hybrid knowledge-based music recommendation system using appropriate AI methodology. (June 2024)
- **3D MoonQuake Map.** [2022 - 2023] Aberration.dev is a constantly updated website that was developed for the purpose of visualizing the moonquakes caused by several different events. JavaScript and Python were used in order to code the simulation, more specifically Three.js and Obspy and many other libraries. This project was a part of the NASA SpaceApps Challenge 2022 and 2023. ([Try it here](#))
- **Bachelors Dissertation: Open Cluster NGC 2420.** [2023] This research was conducted for the purpose of finding the age of the open cluster NGC 2420. Python and Glue software were used in order to fit isochrones to the colour magnitude diagram plotted from SQL files of NGC 2420 data. This project was a part of my senior to conclude my bachelor degree in physics.
- **JobGPT.** [2023] JobGPT is a website that was developed for the purpose of simplifying writing

job descriptions for hiring managers. PHP and HTML along with many other languages were used in order to design the website and develop it, along with SQL for the databases. This project was part of an internship for the company SIIRA.

## LANGUAGES

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**English: Proficient User**

**IELTS Scores:**

Overall Band Score: 8.5

Listening: 9.0

Reading: 9.0

Writing: 7.0

Speaking: 8.0

**French: Fluent**

**Arabic: Proficient User**

**German: B1 Level**

## COMPUTER SKILLS

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**Python**

**Machine Learning**

**Big Data**

**Natural Language Processing**

**R**

**MySQL**

**L<sup>A</sup>T<sub>E</sub>X**

**Microsoft Word**

**Microsoft Excel**

**Microsoft PowerPoint**