

# BRANDON JEREMY NADER

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## PERSONAL PROFILE

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Highly driven and passionate college student working towards a BS in Computer Science. Currently in the Honors program for educational excellence with theoretical and practical experience in algorithms and their effective use. An aspiring software developer looking to directly apply skills in the fast paced technology industry and Artificial Intelligence sector.

## EDUCATION

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**Bachelors of Computer Science, Honors Program, GPA: 3.81,** 2021-2024

Lebanese American University

Relevant Coursework: Algorithms and Data Structures, Parallel Programming, Objects and Data Abstraction, and Database Management.

**International Baccalaureate,** 2019-2021

Antonine International School

Relevant Coursework: High Level Mathematics, High Level Physics, High Level Economics

Honors (Graduate in the 90<sup>th</sup> percentile worldwide)

## SKILLS

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**Languages** Java, C, SQL, Python, Bash, C++

**Frameworks** Laravel

**Tools** Blender (3D Modelling)

**Soft Skills** Self-motivated, team leader, critical problem solver, proactive thinker, intellectual curiosity

**Languages** English (C2), Arabic (B2), French (A2)

## PROJECTS

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**Hotel Management System with a Desktop App** Jan 2023 - Current

Bespoke software alongside its full documentation. Software system consists of a working dynamic website built using Angular and Laravel to manage online bookings and a points system in a safe and secure manner for cross-country transactions. The system also comes with a bespoke database to manage all information concerning bookings and users. Additionally, a desktop application is also presented using tools like Electron.

**Pacman Pathfinder using Artificial Intelligence** Mar 2023 - Current

Using a built environment of pacmans world, an efficient pathfinder is built using different search algorithms alongside a bespoke heuristic value function to manage to search through a fully observable maze and accumulate the highest cost evaluation function.

**Integration of a C variation of LEGv8 to create a working model of a CPU** 2022

*Lebanese American University*

Created an emulation of a working CPU using C. The code follows the similar structures of a CPU including binary conversion of instructions, encoding, decoding and placing proper values into correct registers. An emulated memory system was also implemented to store previous computations for future use. Languages used were C and functions built were based off Assembly LEGv8.

**Design and Implementation of a functional Hotel Management Database with SQL** 2022

*Lebanese American University*

Built a database for a hotel to use to ensure proper management of information including that of employees, guests, and general infrastructure data. Proper normalization of information was followed as well as the sequence of constructing the database, starting from information gathering to diagram construction to instantiation with SQL.

## EXPERIENCE

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### Web Development Internship

Jan 2018 - Feb 2018

In2uitions LLC

*Jounieh, Lebanon*

- Internship included learning the fundamentals of web design and programming with HTML, CSS, JS, as well as having functional dynamic websites with a back-end database connected.

### Lead Debator in Model Arab League - MAL

2018

Lebanese American University

*Beirut, Lebanon*

- Debated issues in the Middle East concerning the production and distribution of oil. Exchanged resolutions related to social and political affairs in a diplomatic setting. Represented Saudi Arabia in the United Nations Model Arab League Conference in Beirut.

## AWARDS AND ACHIEVEMENTS

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- **Distinction Award**, Lebanese American University 2022
- **Distinction Award**, Lebanese American University 2021
- **Academic Excellence Award**, Antonine International School 2020
- **Academic Excellence Award**, Antonine Intl. School 2019
- **1st Place in Debate Tournament**, Antonine Intl. School 2019
- **1st Place in Debate Tournament**, Antonine Intl. School 2018
- **Certified in Red Cross training** 2017
- **Esteemed Representative of Lebanon** chosen by Ministry of Higher Education (UNESCO), 12th International Math and Science Olympiad, Thailand 2015