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Beirut, Lebanon

## SKILLS

LabVIEW

Assembly

Version Control / Git

Linux

Data Engineering

ML/DL

Microsoft Power BI

Proteus

OOP

SQL

Python

C/C++

Matlab

Java

Algorithms and Data Structures

Javascript

Haskell

Team work

Project Management

## LANGUAGES

Arabic

Native or Bilingual Proficiency

English

Full Professional Proficiency

French

Elementary Proficiency

# Ali Al-Hajj

## Computer and Communication Engineer

As a motivated and disciplined engineer, I have a strong desire to specialize in Software Engineering. Driven by a passion for technical innovation, I am eager to contribute fresh perspectives and solutions.

## EDUCATION

### Computer and Communication Engineering

Lebanese University - Faculty of Engineering (branch III)

09/2018 - 10/2023

### Computer Science

Lebanese University - Faculty of Science (branch I)

09/2020 - 12/2021

## WORK EXPERIENCE

### Research and Development (R&D) Engineering Intern

Complexity

03/2023 - 10/2023

Lebanon

Achievements/Tasks

- Conducted data analysis on a hybrid energy solution comprising grid, generator, solar, and battery to detect and identify anomalies in the data, using statistical techniques.
- Leveraged LSTM (Long Short-Term Memory) neural networks to improve data gap-filling based on historical trends, thereby enhancing the performance of a hybrid solution. The LSTM architecture's ability to capture long-term dependencies enabled precise prediction and completion of missing data points.

### Full - Time Intern

Spring Communication

08/2022 - 09/2022

Achievements/Tasks

- Engineered a data scraping system to collect relevant information from Twitter for sentiment analysis applications.
- Leveraged the scraped data to contribute to sentiment analysis projects, providing valuable insights for business decisions.

### Engineering Assistant

Booking Basics

01/2020 - Present

Qatar

Remote

Achievements/Tasks

- Provided academic support to engineering students, specializing in software development courses.
- Offered hands-on assistance in Java, C, and C++ programming languages, enhancing students' understanding and performance.

## PROJECTS

### Anomaly Detection and Performance Analysis of Hybrid Energy Solutions Using Machine Learning (03/2023 - 10/2023)

Performed in-depth data analysis on a hybrid energy system, incorporating grid, generator, solar, and battery elements, to isolate and identify anomalies. Implemented machine learning algorithms to enhance predictive accuracy, thereby improving overall system performance. The project has been successfully transitioned to a production-ready state.

### Twitter Data Analysis Using Python (2022)

Conducted sentiment analysis on targeted Twitter user data, leveraging Python for data scraping and analytical processing.

### GUI Matlab Application for AM/FM Modulation (2022)

Developed a MATLAB-based GUI application for AM/FM signal modulation. The application visualizes the message signal in both time and frequency domains and performs user-selected modulation (AM or FM). All modulation parameters, including the signal function, are user-configurable.

### Face-Recognition App with Intrusion Detection (2020)

Engineered a face-recognition application with intrusion detection features using Python and OpenCV. The software is designed to identify unauthorized individuals and promptly notify the administrator.