

## Khalil El Daou

Senior Computer Engineering Student at the Lebanese American University

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Barja, Chouf, Lebanon



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**Objective:** I am a senior computer engineering student at Lebanese American University interested in software engineering, data science, and robotics. My objective is to gain skills in software applications, data mining and build robots. Moreover, I want to gain experience in a team-oriented environment.

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**Education:** *Bachelor of Engineering in Computer Engineering*  
Lebanese American University - Byblos, Lebanon 2017 – Present  
Expected Graduation Date: 2022

*Lebanese Baccalaureate II General Science*  
Rafic Hariri High School - Saida, Lebanon Graduated: 2017

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**Experience:** *Development Intern*  
BSynchro – Zalka, Lebanon Jul 2021 – Sep 2021

- Created and developed an HR portal for incoming job applicants at BSynchro.
- Built a database for CVs of the applicants and monitored the workflow during the application process.
- Performed daily meetings with the HR team and product manager.

*Software Architect Part Timer*  
Gym 4.0 / MUD – Beirut, Lebanon Oct 2020 – Jan 2021

- Worked on the software part with a young team on implementing a new idea regarding future gyms in the digital age.
- Built an Android app that is synced with the gym related to media.
- Was responsible in implementing the architecture of the gym's backend technical part.

*Software Developer Intern*  
Kidzie – Toronto, Ontario, Canada Jul 2020 – Aug 2020

- Source control with Git, practical development tools, effective communication, and requirements comprehension.
- Estimating efforts and analyzing risks, and strategic debugging.
- Worked remotely with a team on creating a bridge between Kidzie payment gateway and Moneris & PayPal APIs.

*Computer Lab Assistant*  
LAU Engineering Labs & Research Center – Byblos, Lebanon Jan 2020 – May 2020

- Assisted lab users with solving hardware issues, installing and using software programs, and printing documents.

*IT Support*  
LAU Byblos Library – Byblos, Lebanon Aug 2018 – Dec 2019  
LAU Riyadh Nassar Library – Beirut, Lebanon Aug 2017 – May 2018

- Configured computer hardware, printers, and scanners, responded in a timely manner to service issues and requests, and provided technical support across the library.

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**Skills:**      **Software:** Java – Python – Microsoft SQL Server – HTML – CSS – MATLAB – Simulink  
**Hardware:** Quartus Simulator – Easy 68k Assembly Language – PSPICE – Arduino – VHDL – Verilog – Raspberry Pi  
**Computer Industry:** Algorithms – Data Structures – XML – JSON – APIs – Computer Networks – Machine Learning – Deep Learning – Computer Vision – Image Processing – Cloud Computing – Robotics – Android Development – FPGA - Microcontrollers  
**Applications:** AngularJS – Android Studio – Firebase – Unity – Ubuntu – AWS – Google Colab – Microsoft Office – Microsoft Visual Studio – SharePoint – Adobe XD – Power BI

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**Projects:**

**Software:**      **Automated Welding Machine for Rounded Shapes AWMRS** (In progress) – currently working on the final year project which is a Robotic Arm with a welding pointer and sensors that is used in welding the inner side of a concrete drum.  
**Real Estate Web Scraping Tool** (2021) – used Python (Selenium & Beautiful Soup) in creating a web scraping and data analytics tool that helps in understanding the real estate market in Lebanon.  
**Vacuum Cleaning Agent** (2021) – Used Java in creating an intelligent vacuum cleaning agent that cleans dirt by checking tiles using breadth first search and depth first search algorithms.  
**Neuro** (2021) – Used Android Studio in building an app that helps beginner programmers in understanding image detection and machine learning processes by solving puzzles.  
**LAU Galaxy** (2021) – Used Android Studio connected to Firebase to build an intelligent geo-locator, augmented reality, and image classification app, which helps newcomers to LAU in finding their way across the campus.  
**RNA Sequence Comparison using IR Measures** (2021) – Used Java/Javafx to build an RNA sequence comparison tool by extracting RNA XML data and applying different data processing algorithms.  
**CoronaTracker Web & Mobile App** (2020)– Used Angular for the web app & Android Studio for the mobile app where both are connected to same database on Firebase, which can help in tracking new corona cases.  
**ReviewBit Application** (2019)– Used Java/Javafx and connected to a local database created on MySQL that can allow users to review and rate different restaurants and branches in Lebanon.

**Hardware:**      **Marble Color Sorter** (2021) – Used Raspberry Pi and its camera, rover belt, and servo motors in sorting marbles based on their colors.  
**Typing Race on FPGA** (2021) – Used Verilog and VHDL in Quartus Simulator to build a ps2 keyboard typing race on a FPGA board.  
**Digital Door Lock** (2018) – Built a digital door lock that can be unlocked only on one combination using logic gates and Quartus Simulator to simulate the output.

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**Certifications:**      **Data Science for Everyone** (Issued Apr 2021) – DataCamp  
**Machine Learning Pipelines with Azure ML Studio** (Issued Mar 2021) - Coursera

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**Languages:**      English (Fluent) – Arabic (Native) – French (Intermediate – DELF A2)

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