

Mohamad Khalil

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EDUCATION

American University of Beirut (AUB), Beirut, Lebanon August 2019-(Expected May 2023)
Bachelor of Engineering (BE) in Computer and Communications engineering, Minor in Economics. GPA: 3.87/4.0

- **Relevant coursework:** Data Structures and Algorithms, Design and Analysis of Algorithms, Software Engineering, Cryptography and Networks Security, Analog Signal Processing, Signals and Systems, Computer Networks, Digital Systems Design, Computer Organization, Introduction to Probability.

PROJECTS

Sorting Visualizer Fall 2021

- Built a graphic user interface sorting visualizer using HTML, CSS, JavaScript and React. This sorting visualizer covers different efficient sorting algorithms including merge sort, insertion sort, and quick sort.

OurEdit Spring 2021

- A collaborative online document editor that allows multiple users to edit a single document simultaneously. This project was implemented in a group of 4 using Java, with a backend that uses SQL to keep track of files.

Store Password Spring 2021

- Implemented a graphic user interface python project that stores usernames and passwords after using encryption and decryption. This project was also built using C++ with an option to generate a random password.

Property management system Fall 2020

- Built, using C++ data structures, an object-oriented property management solution system where buyers can view and purchase properties if they can afford it.

Package Sorting Circuit Fall 2020

- Designed using VHDL a package sorting circuit that groups packages according to their weights and keeps track of the number of packages in each group.

EXPERIENCE

University Teaching Assistant January 2021-Present

- Helping students with their programming course assignments and holding problem solving sessions.

Skillshare Teacher January 2021-September 2021

- Taught 140+ students the basic and intermediate concepts of coding through online published classes.
- <https://www.skillshare.com/user/mohamadkhalil> .

Self-employed, Nabatieh, Lebanon January 2019-Present

- Helped many high school students to prepare for the SAT, mathematics, physics, and other tests (Duolingo English Proficiency Test).

CERTIFICATIONS AND AWARDS

Dean's Honors List Fall 2019- Spring 2020- Fall 2020-Fall 2021

Coursera Introduction to HTML5 2021

Google Kickstart 2021

Google cloud essentials 2021

CSS on Sololearn (ongoing) 2021

Arab and African Collegiate Programming Contest (ACPC) 2021

Beirut Artificial intelligence (AI) workshop 2020

Sketching Competition, Lebanon 2013-2014

- Ranked 1st on Lebanon twice

EXTRACURRICULAR ACTIVITIES

Robotics Club, Nabatieh, Lebanon October 2016-June 2017

Designer, Programmer, Presenter

- Ranked 5th , designed and programmed a robot to compete in FLL robotics competition.

Programming Competitions February 2021

- ACPC competition
- Google Kickstart

SUMMARY SKILLS

Computer skills: C++, Python, HTML, CSS, VHDL, JavaScript, Java , React, PSpice, Microsoft Office.

Languages: Arabic, English, and French

Interests: data structures, theory and algorithms, object-oriented programming, efficient algorithms, coding, digital design, math, networking, robotics, problem solving, and complexity analysis, cloud essentials.