

## Hussein Rakka

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Beirut, Lebanon

### EDUCATION

**Lebanese American University, Beirut, Lebanon**

**Expected graduation June 2022**

BS in Computer Science, Cumulative GPA: 3/4

**Lycée Des Arts, Hadath, Lebanon**

**2018**

Lebanese Baccalaureate, General science (G.S)

### WORK EXPERIENCE

**Lebanese American University, Beirut, Lebanon**

**Spring 2019**

*Teaching Assistant*

- Handled lab organization and exams proctoring.
- Assisted in delivering the Introduction to Object Oriented Programming course.

### COURSE PROJECTS

**Advanced Academic English:** Wrote a literature review on the impact of e-exams on students' behavior, Spring 2021.

**Software Engineering:** Utilized C++ to implement a hospital management software using waterfall method, Spring 2021.

**Parallel Programming:** Designed a parallel structure in C language that tackled data mining and its efficiency, Spring 2021.

**Academic English II:** Drafted a literature review on celebrities' impact on young adults, Spring 2020.

**Database systems:** Developed a database application for a zoo with a user-friendly interface, Fall 2020.

**Operating Systems:** Implemented a fully functioning operating system with a server and client that imitates basic shell commands and pipes, Fall 2020.

**Social and professional issues in computing:** Wrote a scholarly article regarding biometrics and how even though they benefit us today, still hold a large number of issues along side utilizing them.

**Mobile Development:** created multiple apps using android studio as well as designing and implementing a full stack project using PHP ionic, and figma.

**Game Development:** Developed 2 games one 3<sup>rd</sup> person and one 1<sup>st</sup> person game with multiple implementations such as Ray casting, couroutines , saving game, sound and more.

**Web Development:** created multiple Web pages both front and backend using php as well as the implementation of multiple api's. The web pages also included security features such as authentication and tokenization of login and logout features.

**Natural Language Processing:** created a virtual ai system that can take voice input from the user and analyze the speech given to respond with and appropriate callback using gtts and paudio in python.

**Computer Security:** exploited multiple bugs as well as reverse engineering multiple threats and attacks in Linux based subsystems. Completing multiple levels including some impossible values in dvwa using birpsweep to execute brute force attacks as well as some xss command line injection attacks.

### EXTRACURRICULAR ACTIVITIES & VOLUNTEER WORK

**Lebanese American University, Beirut, Lebanon**

- Lebanese Collegiate Programming Contest (LCPC), 5<sup>th</sup> place ranking team, Spring 2020.
- Computer Science Club, member, Spring 2020, fall 2021.
- Volunteer object oriented programming Tutor, Fall 2020.

- Math Club, member, Spring 2019.
- LAU Google Hash Code Competition, 6<sup>th</sup> place ranking, Fall 2019.
- Chess Club, member, Fall 2019.

### **SKILLS, LANGUAGES, & INTERESTS**

**Computer skills:** C, C++, Python, Java, HDL (Verilog/VHDL), SQL, Oracle Database, Visual Studio, HTML, CSS3, JavaScript, VMware, Android Studio, PHP, Ionic, Linux/Windows, and Microsoft Office programs.

**Languages:** Fluent in English and Arabic, with elementary proficiency in French and German.

**Interests:** Reading, watching movies, and gaming.