KARIM BARADA

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EDUCATION

American University of Beirut, Beirut, Lebanon   May '21
B.S., Computer Science; Major GPA: 3.63; Dean's Honor List
Applying to transfer to Computer Science and Engineering   *Expected Graduation Date*: December '22
American Community School at Beirut, Beirut, Lebanon   May '18
Life Sciences, Lebanese Baccalaureate

RELEVANT COURSEWORK   2018-Present

Introduction to programming, Intermediate programming and data structures, Computer architecture, Advanced algorithms and data structures, Software engineering, Concepts of programming languages, Database systems, Artificial Intelligence, Theory of Computation, Operating Systems, Data Science, Computer Networks, Computer and Information Security, GPU Programming.

UNIVERSITY PROJECTS   2018-Present

- Development of a website (Cloasis) using Angular 9 within an Agile environment, aimed to provide professors with their students' academic information (Student information system).
- Machine Learning project to identify Twitter bots using classical Machine Learning techniques using Python (Scikit-learn, Matplotlib, Pandas).
- Data science project to examine the effect of long-term exposure to PM2.5 on COVID-19 mortality rates using time-series analysis. EDA (Exploratory data analysis) was done in R, data pre-processing and Machine Learning was implemented in Python (Scikit-learn, Matplotlib, Pandas, Keras).
- Working on a long term project to come up with efficient sequential algorithms using (C/C++) to solve the minimum vertex cover problem and then parallelizing those algorithms on GPUs (Graphics Processing Unit) using CUDA.

HARD AND SOFT SKILLS

- English & Arabic (fluent)
- Microsoft Office Suite, One Drive, LaTex
- Python, C/C++, Java, SQL, Angular 9 Framework, Typescript, R, CUDA
- Machine learning: Jupyter notebook/Google Collab, Scikit-learn, Matplotlib, Pandas, Keras

LEADERSHIP AND INTEGRATED LEARNING EXPERIENCE

Political Committee Chair and Cabinet Member, **Secular Club at AUB,** Beirut, Lebanon   2020-Present
- Actively participate and shape the mission of AUB's Secular Club, the largest student-led political group in the country, and a part of Lebanon's movement towards secularism, democracy, and social justice.
- Elected as Political Committee Chair and Cabinet member by the Secular Club's General Assembly
- Lead Political Committee meetings and ensure that the committee fulfills its responsibilities to develop the Club's values, principles, mission, and role, formulate its stances towards pertinent political issues, organize discussions aimed at building club members' capacity, knowledge, and critical thinking about salient political issues.
- Participated in democratic decision-making on the implementation of the club's activities as a member of the cabinet.

Member, **Adopt an Orphan**, Beirut, Lebanon   2017-2018
- Provided socioemotional support to 50 children in an orphaned children's shelter in Ouzaii, an underserved area in Beirut, Lebanon
- Conducted fundraisers to raise money to provide toys and books to our chosen children's shelter

Speaker and Delegate, **Model United Nations**, Beirut, Lebanon   2016-2018
- Invited to participate at the Model United Nations conferences in 2016-2018 as a delegate
- Led political discussions on issues such as genocide and arms races

Member, **Refuteach**, Beirut, Lebanon   2016-2017
- Provided logistical support to fundraising campaigns, which were used to provide financial support to underserved children of Palestinian refugee status in Borj al Barajneh
- Centered the concepts of self-empowerment among students; provided educational materials

References Available Upon Request