Roni Bou Saab

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 GitHub Profile

 LinkedIn Profile

EDUCATION

- **American University of Beirut** *2022-2026*

  Bachelor of Engineering, Computer and Communication Engineering GPA: 3.8

EXPERIENCE

- **American University of Beirut** *Feb 24 - May 24*

  Teaching Assistant for EECE 230: Introduction to Programming Beirut
  - Developed and led interactive problem-solving sessions for 20 students, boosting student understanding and achieving an increase in the overall class performance

- **American University of Beirut** *Aug 23 - Dec 23*

  Teaching Assistant for EECE 330: Data Structures and Alghorithms Beirut
  - Assisted ten students in solving assignments during 3-hour, weekly lab sessions
  - Corrected weekly assignments

PROJECTS

- **GRAND Algorithm** *Fall 23*

  Implemented of the Guessing Random Additive for Noise Decoding (GRAND) using in communication system

  - Tools & technologies used: VHDL verilog, EDA playground

- **Competitive Programming** *Jan2023 - Present*

  I am part of the AUB competitive programming community and the ACM club

  - Won 8th place out of more than 60 teams in the Lebanese Collegiate Programming Contest 2023, part of ACM-ICPC, in a group of three students in our first-time participation
  - Ranked seventh in Lebanon and top 10 percent in IEEEXtreme 17.0 (2023)
  - Participated in Google Jam round, meta hacker cup

TECHNICAL SKILLS AND INTERESTS

Programming languages: C/C++, Python, Java
Other tools : git, MySQL
Hobbies: Hiking and reading

LEADERSHIP AND VOLUNTEERING ACTIVITIES

- **Community Services Project Leader,** Center for Civic Engagement *Feb 24 - May 24*
  -Organized and led workshops to enhance social media skills for migrant workers

- **Volunteer,** Service de L'enfant of Foyer *Summer 23*
  -Organized and facilitated bi-weekly recreational activities for six children in a refuge center

- **Volunteer** OffreJoie NGO *Feb. 21 – May 23*
  -Engaged in reconstruction efforts following the Beirut Blast.

RELEVANT COURSEWORK

- EECE 230: Introduction to Programming
- EECE 330: Data Structure and Algorithm (C++)
- EECE 331: Design and Analysis of Algorithms
- EECE 332: Effective Java Programming and OOP
- EECE 350: Computer Networks
- Calculus, Discrete Math and Probability
- CS50x Intro to Programming from HarvardX
- EECE 338: Theory of Computation