Zora Banbouk

+961-71902653| zmb18@mail.aub.edu | Beirut,Lebanon

Education

- **American University of Beirut**
  Bachelor's in Computer and Communications Engineering
  Expected Graduation: June 2026
- **Hariri High School 2, Beirut**
  Lebanese Baccalaureate, Official (2022)
  Graduated with Excellence

Projects Accomplished

- **Medical Scheduling Software** *(Software Engineering Course-Ongoing)*
  Developing a software application for medical appointment scheduling, focusing on usability and efficiency.
- **Food Menu Web Development** *(Self-Initiated Project – Dec 2024)*
  Designed and developed a food menu web application using HTML and CSS during free time to enhance web development skills.
- **Cryptography Web Application** *(Cryptography and Network Security Course – Nov 2024)*
  Collaborated with a team to build a React.js frontend and Python Flask backend, featuring classical encryption methods (e.g., Hill Cipher) and advanced concepts like the Chinese Remainder Theorem.
- **IoT Transceiver Research** *(RF Transceiver Design Course -Nov 2024)*
  Conducted research on FM-UWB and SWIPT technologies, focusing on their architecture and design for IoT applications.
- **MATLAB Communication Chain** *(Communication Systems Course -Dec 2024)*
  Developed a MATLAB-based communication chain comprising sampling, quantization, and noise addition to analyze noise handling in communication systems.
- **Chat Time Application** *(Networking Course -May 2024)*
  Developed a Python-based chat application with server-client interaction and SQL database integration for user data management.
- **Graph Algorithm Implementation** *(Data Structures and Algorithms Course- Dec 2023)*
  Worked in a team to implement graph algorithms, including BFS, Dijkstra's Algorithm, and graph traversal techniques, using C++.
- **Washing Machine Control Logic** *(Digital Design Course- July 2023)*
  Designed and implemented washing machine control logic using Verilog, demonstrating practical applications of digital design principles.

Technical Skills

- **Programming Languages:** Python, C++, HTML, CSS, JavaScript, Java, Linux
- **Networking:** TCP/IP, Wireshark
- **Cryptography:** Proficient in encryption techniques and cryptographic algorithms
- **Database Management:** SQL

- **GUI Design:** Experienced in designing graphical user interfaces
- **Languages:** Fluent in English and Arabic (reading, writing, and speaking)

Certifications & Volunteer Experience

- **Forest Biodiversity Exploration and Conservation** *(July 2024)*
  Participated in a forest exploration project focused on biodiversity maintenance.
  Studied and documented plant species through research and photography.
- **AUB Commencement Event Volunteer** *(June 2024)*
  Coordinated logistics and provided event support to ensure seamless operations during the AUB Commencement ceremony.
- **AUB Insight Club Volunteer** *(April 2024)*
  Collaborated with NGOs on various community-driven projects and assignments, contributing to impactful social initiatives.
- **First Aid Certification** *(May 2024)*
  Successfully completed comprehensive first aid training, acquiring life-saving skills and emergency response techniques.
- **IEEE Member:** Actively engaged in IEEE events and initiatives to stay updated on industry trends. *(May 2024)*
- **React Workshop Certification:** Successfully completed a React web development workshop, certified by Objectia Academy. *(Jan 2025)*
- **Python Programming Bootcamp** *(Dec 2022)*
  Gained advanced Python programming skills through an intensive, hands-on training program.