

# Rayane H. Chams Bacha

Tel: +961 78 964043 | [rhc08@mail.aub.edu](mailto:rhc08@mail.aub.edu) | Beirut, Lebanon

## EDUCATION

- American University of Beirut (AUB) – Beirut, Lebanon** *Aug. 2022 – Jun. 2027*
- Pursuing a B.Eng. in Computer and Communications Engineering (GPA: 3.76) and minoring in Business Administration (Cumulative GPA: 3.8)
  - Earned AUB Entrance Merit Scholarship for outstanding academic performance
- Riad Al Solh High School – Beirut, Lebanon** *Sep. 2022– Jun 2022*
- Graduated with High Distinction and ranked 4<sup>th</sup> in Beirut region in Lebanese baccalaureate (General Sciences)
- Rutland High School – Georgia, USA** *Aug. 2021– May 2022*
- Selected as a KLYES Exchange Program Scholar (GPA: 4.0/4.0) and elected as an exchange ambassador in National Beta Club
  - Led sciences and math team in Quiz Bowl Club, and won 1<sup>st</sup> place in international education week cultural presentation

## PROFESSIONAL EXPERIENCE

- Engineering Student Society - Beirut 2030 (AUB), Associate Project Member – Beirut, Lebanon** *Sep. 2025 – Present*
- Led deployment of 50+ solar-powered street lighting units with municipalities and suppliers to enhance community safety and energy efficiency; designed a workflow that cut installation time by 25% and improved operational efficiency across districts through KPI-based progress tracking
- QuickSign – Amazon Industry Program 4.0 (AUB)** *May 2025 – Sept. 2025*
- Achieved 3rd place among 15 teams during a 5-month Amazon Industry Mentorship Program by developing an Arabic Sign Language Translator (video-to-text) with avatar-based signing, training a bi-directional Long Short-Term Memory (LSTM) deep learning model on Kaggle datasets, and reaching 93.3% training accuracy through data preprocessing and model optimization
  - Built and deployed an end-to-end prototype (React Native front-end, Flask backend, AWS services), leading product strategy and benchmarks in a 5-member team under Amazon mentorship
- 180 Degrees Consulting AUB, Consultant – Beirut, Lebanon** *Sep. 2023 – Jun. 2024*
- Developed a donor outreach growth strategy for a Lebanese NGO focused on community revitalization, increased stakeholder engagement and contributions using data analysis to target high-engagement donors and increase outreach efficiency by 30%
  - Earned the semester's "Best Project Award" for delivering a data-driven and client-focused presentation
- IEEE AUB, Marketing Officer – Beirut, Lebanon** *Sep. 2023 – Present*
- Leading marketing campaigns to increase student participation through targeted promotional strategies
- The Little Engineer, STEM R&D Educator – Beirut, Lebanon** *Sep. 2023 – Present*
- Delivering STEM courses in Robotics, Python, C++, 3D printing, and university-level Calculus II & III and Physics to advanced high school students, driving to high improvement in academic performance

## PROJECTS

- Sama Beirut Operations BMS Optimization – Building Management Systems Course (AUB)** *Sept. 2025 – Present*
- Conducted a current vs. target state assessment of Sama Beirut's electrical, lighting, and control systems, Lebanon's tallest skyscraper, evaluating efficiency gaps and integration limitations
  - Proposed IoT integration solutions featuring real-time monitoring and smart energy controls to enhance automation
- AUB 350 Grand Prix, Online Car Racing Game – Computer Networks Course (AUB)** *Mar. 2025 – May 2025*
- Built a real-time multiplayer Python game with client-server architecture, enabling matchmaking and peer-to-peer gameplay
  - Designed and managed SQLite database using SQL queries for user authentication, session tracking, and player data storage
  - Optimized socket communication and database access speeds, improving system latency by 20%
- BeadsPopp, Founder – Beirut, Lebanon** *Jan. 2025 – Present*
- Founded online fashion brand leveraging AI-based personalization; implemented data-driven marketing strategy that grew sales 2.5x and reduced fulfillment time by 35%

## AWARDS AND ENGAGEMENT

- AUBCC X MSE Case Competition – AUB** *Nov. 2025*
- Placed 3<sup>rd</sup> among 10 teams for analytical depth and presentation clarity in proposing a lithium market-entry strategy for a Lebanese mining firm, analyzing regulatory, financial, and geopolitical factors to deliver actionable recommendations.
- Full Hearts, Founder & Organizer – GYSD, recognized by the U.S. Department of State – Georgia, USA** *Mar. 2022 – Apr. 2022*
- Led a donation campaign supporting 100+ women survivors of domestic abuse at a Georgia-based rescue mission
- Civic Education Workshop, Alumna – Washington DC, USA** *Feb. 2022 – Mar. 2022*
- Engaged with U.S. policymakers and attended policy discussions in Capitol Hill exploring grassroots project development

## SKILLS & INTERESTS

**Languages:** Arabic (native), English (fluent), French (fluent)  
**Technical Skills:** Agile workflow tools (Jira, Trello), Microsoft Office, C++, Python, SQL, Typescript, React Native, Figma  
**Interests:** Entrepreneurship, AI/ML for Social Impact, Telecommunications, Product Design, Reading