

# Rayane H. Chams Bacha

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## EDUCATION

- American University of Beirut (AUB) – Beirut, Lebanon** *Aug. 2023 – Jun. 2027*
- Pursuing a B.Eng. in Computer and Communications Engineering (GPA: 3.8) and minoring in Business Administration
  - Earned the AUB Entrance Merit Scholarship and placed on the Honors List for outstanding academic performance
- Rutland High School (Kennedy-Lugar YES Scholar, nationally competitive) – Georgia, USA** *Aug. 2021 – May 2022*
- Elected Exchange Ambassador, National Beta Club; 4.0 GPA, 1st place, International Education Week presentation; led Sciences & Math team, Quiz Bowl Club

## PROFESSIONAL EXPERIENCE

- Amazon Industry Program 4.0 (AUB) – AI Product Developer – Remote** *May 2025 – Sep. 2025*
- Led full product lifecycle for an AI-powered Arabic Sign Language video-to-text app, from requirements gathering and sprint planning (Agile/Jira) to iterative UAT cycles and live stakeholder demo
  - Translated complex ML model outputs into functional specifications; integrated backend APIs into a production ready React Native mobile app with 93.3% model accuracy
  - Managed sprint cycles with Agile/Jira, dependency analysis, and roadmap prioritization, structured UAT rounds
  - Integrated backend REST APIs into a React Native frontend, bringing functional and technical layers
- 180 Degrees Consulting AUB, Strategy Consultant – Beirut, Lebanon** *Sep. 2023 – Jun. 2024*
- Performed current-state vs. target-state business process analysis; identified gaps between client workflows and best practices, and developed data-driven recommendations adopted by leadership
  - Conducted market research, competitive analysis, and stakeholder interviews to translate business user needs into actionable strategic specifications
  - Delivered structured efficiency reports; donor engagement strategy increased contributions by ~30%. Awarded Best Project
- Engineering Student Society - Beirut 2030 (AUB), Associate Project Member – Beirut, Lebanon** *Sep. 2025 – Present*
- Coordinated deployment of 50+ solar-powered street-lighting units; implemented KPI-based performance tracking and produced structured efficiency reports for project stakeholders
  - Supported gap analysis between planned and actual operational outcomes, proposing corrective actions
- BeadsPopp, Founder & Operations Manager – Beirut, Lebanon** *Jan. 2025 – Present*
- Managed end-to-end supply chain operations: supplier negotiations, inventory management, and fulfillment optimization
  - Applied Python-based data segmentation and pricing strategy analysis to achieve 2.5× sales growth and 35% faster delivery; used transaction data for iterative product-mix decisions
  - Configured and managed multi-channel storefront (Shopify) end-to-end, including UX, analytics, and system integration
- American University of Beirut (AUB) – UX/UI & Digital Product Development (Work-Study)– Remote** *Feb. 2026 – May 2026*
- Redesigned FHS website pages using HTML, CSS, and UX/UI principles; documented requirements and validated output against usability benchmarks (User Acceptance Testing)

## PROJECTS

- Currency Exchange Platform, Full-Stack (EECE 430L)** *Sep. 2025 – Dec. 2025*
- Built a full-stack platform across 4 surfaces (Python/Flask REST backend, React web, JavaFX desktop, Android/Kotlin); designed 16+ backend API services including JWT auth, P2P marketplace, RBAC, rate limiting, audit logging, and analytics
  - Performed data validation, transaction integrity checks, and CSV export
- Sama Beirut Operations BMS Optimization, Operations Analyst – Beirut, Lebanon** *Sep. 2025 – Dec. 2025*
- Conducted current-state vs. target-state analysis of electrical and control systems at Lebanon's tallest skyscraper; identified efficiency gaps and proposed IoT-enabled digital transformation solutions

## AWARDS & RECOGNITION

- 180 Degrees Consulting AUB – **Best Project Award** *Jun. 2024*
- Amazon Industry Program 4.0 – **Ranked 3<sup>rd</sup> out of 15 Teams** *Sep. 2025*
- AUBCC X MSE Case Competition – **3<sup>rd</sup> Place** *Nov. 2025*
- U.S. Dept. of State – **Best GYSD Recognition**; 1<sup>st</sup> Place Grassroots Project, Capitol Hill, Washington, DC *Mar. 2022*

## SKILLS & INTERESTS

**Technical:** Python, SQL, C++, TypeScript, React Native, HTML/CSS; REST APIs, Postman; Agile (Jira, Trello); Figma; Shopify  
**E-commerce:** TikTok marketing & content commerce, Instagram Shop, Shopify storefront, social-to-purchase funnel optimization  
**Product:** Requirements gathering, ROI & dependency analysis, UAT, roadmap prioritization, user research, A/B iteration  
**Languages:** Arabic (native), English (fluent), French (fluent)