Ghada Al Danab

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EDUCATION

American University of Beirut (AUB)   Beirut, Lebanon
B.E. in Computer Science and Engineering (CSE)   *Sep 2023 - Jun 2027 (Expected)*
  • GPA: 4.0 / 4.0 — Dean's Honor List every semester

Houssam Eddine Hariri High School (HHHS)   Saida, Lebanon
Lebanese Baccalaureate – General Sciences (GS)   *2008 – 2023*
  • Official Exam Grade: 18.56 / 20 – Ranked 13th in Lebanon (GS Track)
  • School Rank: 1st — High Distinction — Graduation Final Average: 99 / 100

EXPERIENCE

Teaching Assistant – EECE 230: Introduction to Programming (Python)   Jan 2024 – Present
American University of Beirut
  • Led weekly lab sessions, demonstrating leadership and effective communication while guiding students through assignments and breaking down core coding concepts into manageable subproblems.
  • Conducted weekly office hours, providing one-on-one guidance to students tackling programming challenges and coursework difficulties.

Team Member – EECE 230X: Open Course Initiative   Jul 2024 – Jan 2025
American University of Beirut
  • Contributed to the organization and execution of a large-scale, free online version of EECE 230, engaging over 600 students from diverse educational and technical backgrounds.
  • Held twice-weekly office hours to guide students through programming challenges and clarify complex concepts.
  • Conducted final assessments to evaluate comprehension and ensure students could apply their skills effectively.
  • Fostered an inclusive and supportive learning environment that accommodated learners at different levels of expertise.

PROJECTS

QuickSign   May – Sep 2025
React Native, Flask, AWS, MediaPipe, FFmpeg
  • Built a mobile app, with a team of 5, bridging communication between Arabic Sign Language users and the general public.
  • Integrated AWS Cognito for secure authentication and developed Flask APIs for text-to-sign translation.
  • Developed key screens and UI using React Native and Expo, with i18n for bilingual (Arabic/English) support.
  • Implemented MediaPipe and FFmpeg-based sign generation pipeline.
  • Achieved 3rd Place at Amazon Industry Program 4.0.

Equity and Learning Gaps Dashboard   Sep 2025
Python, Pandas, Streamlit, Docker
  • Developed an interactive Streamlit analytics dashboard to visualize learning gaps in Lebanon's National Student Assessment dataset.
  • Trained logistic regression models to predict at-risk students and containerized deployment with Docker.
  • Ranked 3rd place (Team of 3) at EECE490/690 "From Data to Impact" Hackathon.

DealFinder   Jan – May 2025
React (TypeScript), Python (BeautifulSoup)
  • Built a web scraping and deal-comparison platform for Lebanese electronics stores (Abed Tahan website).
  • Designed React frontend with sorting and filtering, enabling real-time product comparison across vendors.

AUBoutique   Aug – Nov 2024
Python (Sockets, SQLite3, JSON)
  • Designed a multithreaded client-server marketplace for AUB students supporting product listings and transactions.
  • Implemented authentication, product management, and GUI interface with integrated shopping cart and rating system.

AWARDS AND ACHIEVEMENTS

• 3rd Place – Amazon Industry Program 4.0 (QuickSign Project), MSFEA–AUB (Sep 2025)

• 3rd Place – AUB Library Open Day: Access Engineering McGraw-Hill Competition (Fall 2023)

• Partial Scholarship – Immerse Education Essay Competition (Sep 2021)

• 3rd Place – USJ Environment Day Video Awareness Competition (Jun 2021)

EXTRACURRICULAR ACTIVITIES

• AI Bootcamp: Zaka AI & Hariri Foundation – Data Science, Deep Learning, NLP, and MLOps (Aug 2025)

• Amazon Industry Programs 3.0 & 4.0 (AUB, MSFEA): Software and Machine Learning Tracks (May 2024 & May 2025)

• Volunteer: Lebanese Red Cross – Disaster Management Sector (Mar 2023 – Sep 2025)

• Head of Academic Committee: HHHS Student Council (Dec 2022 – Jul 2023)

• Volunteer: Orphan Society, Saida – Assisted children with autism and managed data archiving (Jun – Aug 2021)

SKILLS

Programming Languages: Python, C++, Java, SQL

Frameworks & Tools: React, Flask, Pandas, NumPy, scikit-learn, Docker, AWS, Git, BeautifulSoup, FFmpeg

Soft Skills: Leadership, Time Management, Teamwork, Problem Solving, Critical Thinking

Languages: Arabic (Native), English (Proficient)