

Sara Azzam

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Education

American University of Science and Technology, Beirut, Lebanon

Oct 2023 – Jun 2026

Bachelor of Science, Computer Science. Emphasis in Data Science. **GPA: 4.0/4.0**

Technical Skills

Languages & Frameworks: Python, Java, C/C++, SQL, JavaScript, Flask

AI & Data Science: PyTorch, Scikit-learn, TensorFlow, Keras, Pandas, NumPy, Matplotlib, Seaborn

Tools & Technologies: Docker, Git, GitHub, Postman, REST APIs, Power BI, n8n, Azure, AWS

Work Experience

Teaching and Research Student Assistant, American University of Science and Technology

Oct 2025 – Present

- Supported 40+ students per week through technical mentoring, debugging sessions, and lab assistance.
- Contributed to 2+ **faculty-led AI projects**, supporting development, testing, and research initiatives.
- Assisted faculty in organizing academic workshops and events, scheduling, and technical operations.

Digital Transformation Intern, Monty Mobile

Jun 2025 – Aug 2025

- Built and customized 4+ **Microsoft Dynamics 365 CRM** solutions using Power Apps and JavaScript.
- Designed and implemented automated workflows in **Power Automate** to streamline CRM operations, reducing manual processing time by 25–40%.
- Developed **API integrations** to enable data exchange between Dynamics 365 solutions and external systems.
- Integrated workflows with **Microsoft platforms** such as Teams, Office 365, and SharePoint to enhance collaboration.

Projects

VocaLink | *Python, FastAPI, Transformers, PyTorch, NLTK, WebSockets, Unreal Engine 5*

- Developed an AI-powered sign language generation system that transforms speech into expressive animated signing.
- Integrated AI models for speech interpretation, keyword extraction, and real-time emotion recognition.
- Built a UE5 signing avatar with a 2,500+ words and semantic matching for low-latency sign generation (<2.5s).
- Achieved ~90% sign accuracy and ~85% emotion-expression alignment for realistic signed communication.

SmartCity | *Python, Pandas, NumPy, Scikit-learn, Power BI*

- Architected a real-time pipeline ingesting live air quality, weather, and traffic data from 3 APIs hourly.
- Developed ML models for 24-hour PM2.5 forecasting, anomaly detection, and a 0–100 composite Risk Index.
- Designed a 3-page live Power BI dashboard visualizing KPIs, forecast overlays, and traffic anomaly timelines.

Leadership

Member, IEEE AUST Student Branch

Jan 2025 – Present

- Participated in conferences, trainings, and networking events, enhancing technical skills and industry connections.
- Organized hackathons, competitions, and technical events, coordinating logistics and participant engagement.

Secretary, Lebanese Red Cross Youth Sector, Beirut Center Committee

Aug 2023 – Dec 2023

- Managed official documents, minutes, and records, maintaining a well-organized archive.
- Facilitated the Humanitarian Values and Principles program to 100+ members, promoting ethical awareness.