

Jassem El Danaf

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Education

American University of Beirut (AUB) Aug. 2022 – Present
Bachelor's degree in Computer Science and Engineering *Graduation date: June 2026*

Work Experience

Maroun Semaan Faculty of Engineering and Architecture - Research Assistant (RA) Jan. 2026 – Present

- Fine-tuned small open-weight LLMs (LLaMA, Qwen, Gemma) using LoRA/QLoRA for dementia-friendly conversational AI
- Designed synthetic dialogue generation pipelines and agentic AI systems integrating vision, emotion, and LLM layers

American University of Beirut - Resident Assistant (RA) Aug. 2025 – Present

- Provided support to 250+ students living in university dorms, ensuring a positive living experience
- Collaborated with five RAs, Head Resident, and Housing Office to plan social and sports events

BASMA.com - Internship Oct. 2025 – Jan. 2026

- Built event-driven automations that replace manual steps and standardize team workflows using n8n
- Created automation templates with strong data mapping and safeguards to improve reliability and speed

Gulf Business Machines - Internship June. 2025 – Aug. 2025

- Assisted in developing an AI chatbot for Ministry of Interior, focusing on design and API
- Supported LLM model training and testing, improving response accuracy and overall user experience

National Bank of Kuwait – Internship Aug. 2023 – Sep. 2023

- Partnered with Creative Confidence on a project to enhance teamwork and communication skills
- Facilitated project monitoring through reports and task coordination to keep objectives on track

Extracurricular Activities

Innovation Park AUB Student Branch – Partnerships Director Aug. 2025 – Present

- Secured partners for startup fairs and internships, negotiate packages, coordinate activations and follow-ups
- Lead a 5-person team to win sponsors, set targets, track conversion, and deliver benefits

Association of Energy Engineers AUB – Public Relations Officer Aug. 2025 – Present

- Organized energy and sustainability events, book speakers, coordinate logistics, host talk and panels
- Secured sponsors and partnerships, negotiate benefits, manage outreach, and grow member engagement

IEEE - AUB Student Branch - Member at Large Aug. 2024 – Aug. 2025

- Participated in collaborations and workshops to support IEEE members' professional growth
- Helped secure sponsorships and fund-raise for chapter events and initiatives

Projects

Virtual Power Plant – Final Year Project Aug. 2025 – Present

- Trained forecasting agents, tracked MAE/RMSE, and iterated features to improve accuracy
- Built PV and load forecasting for multi-home data at hourly resolution using TFT with XGBoost

ShareBook - Campus Textbook Marketplace Feb. 2025 – May. 2025

- Built a responsive React landing page, search bar, feature list, trending-books carousel
- Dockerized the front-end and managed collaborative development through Git/GitHub pull-request workflow

AI-Powered Movie Recommender Nov. 2024 – Dec. 2024

- Created an AI movie recommender using OpenAI API and sentiment analysis for tailored suggestions
- Integrated real-time updates for trending and new releases via IMDb APIs

AI-Powered Medicine Barcode Scanner Nov. 2024 – Dec. 2024

- Built an AI model to scan medicine barcodes and suggest alternatives from a trained database
- Integrated inventory tracking for real-time updates on medicine availability and counts

Licenses & Certifications

Getting Started with Data – IBM SkillsBuild June 2025
Data Wrangling, SQL, Python, CSV/JSON, Dashboards and Visualization, Excel, Data Ethics

Skills

Languages: Arabic (Native), English (Fluent)
Computer skills: Python, SQL, PowerShell, Git/GitHub, Docker, Jenkins CL, n8n, Slack, Trello, REST APIs, XGBoost, PyTorch
Soft Skills: Teamwork, Communication, Analytical Thinking, Problem-Solving, Time Management, Ethical Judgment
Interests: Fitness, Reading, Challenges