

HASHEM KHODOR

Beirut , Lebanon

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Education

American University of Beirut (AUB)

Sep. 2021 – June 2025 (Expected)

Bachelor of Engineering in Computer Science and Engineering (CGPA : 4.0/4.0)

Beirut, Lebanon

Professional Experience

Data Science Intern & Part Time

Remote

Arab Center for Research and Policy Studies at Doha, Qatar

June 2024 - Present

- Designed and developed advanced RAG (Retrieval Augmented Generation) systems for Arab Linguists using LangChain, Cohere API, and Hugging Face, then hosted them on a custom Mastodon instance.
- Designed and developed custom benchmarks for the developed RAG using LLMs as judges.

AI Summer School Participant at Texas A&M University at Qatar

Doha, Qatar

Texas A&M University at Qatar

May 2024 - June 2024

- Selected to participate in a rigorous 2-week fully funded AI summer school at Texas A&M University in Qatar.
- Engaged in intensive workshops covering topics from the fundamentals of AI and Multilayer Perceptrons to advanced subjects like Generative AI, AI in Medicine, and Cybersecurity.

Conversational Chatbot Application Team: Backend Developer at AUB

Beirut, Lebanon

EECE 230X - Introduction to Computation and Programming Using Python

August 2023 - April 2024

- Designed and implemented secure user CRUD (Create, Read, Update, Delete) routes using FastAPI and Supabase API.
- Developed comprehensive using pytest including edge cases and mocks for external dependencies.
- Configured PostgreSQL database policies within Supabase to secure automated user creation upon confirmation.

Teaching Assistant at AUB

Beirut, Lebanon

EECE 331 - Design and Analysis of Algorithms

August 2023 - December 2023

- Hosted two weekly office hours to answer student's questions about the course's material and its problem sets.

EECE 230X - Introduction to Computation and Programming Using Python

August 2022 - May 2023

- Held a weekly programming lab for 50+ students to assist them in solving the programming assignments.
- Supervised a team of 5 TAs in Spring 2022.

Programming Assignments' Automation Team Co-Lead at AUB

Beirut, Lebanon

AUBSharifJudge & Gradescope Deployment and Administrative Lead

July 2022 - December 2023

- Lead the deployment process of open-source programming assignment auto-grader sharif judge on Microsoft azure (ubuntu server) by setting up the database and deploying it on Apache2 web server whilst documenting the process.
- Modified sharif judge's PHP and bash code to allow for customized grade extraction and C++ assignment testing.

Projects

Jobsty - Job Scraping and Listing Website | Python, Selenium, FastAPI, NextJS, Tailwind

Present

- Developed modular LLM based job openings scrapers utilizing Selenium to extract data from major companies, including Google, Amazon, IBM, and Microsoft.
- Designed and implemented a responsive website to display scraped job openings, employing Next.js and Tailwind CSS.

Final Year Project - A more efficient fine-tuning approach for LLMs | Python, Pytorch

Present

- Researching more efficient fine-tuning approaches for LLMs using Pytorch.

CNN Knowledge Distillation | Python, Keras

June 2024

- Implemented a neural network compression technique using knowledge distillation for teacher-student training. 🔄

AI-Based Pesticide Detection and Recommender System | Python, Flask

December 2023

- Developed an AI system for pest detection and pesticide recommendation using CNN and a recommender system. 🔄

Technical Skills

Programming Languages: C/C++, C#, Python, Java, PHP, SQL (PostgreSQL,MySQL), Typescript

Languages: Arabic (Native) , English (Fluent)

Other Tools: Vim, Bash, Batch, Powershell, Git, L^AT_EX, MS Office Package, Linux, HTML5, CSS, Selenium, Google Cloud

Extracurricular Activities

Chair of AI at ACM AUB

August 2024 - Present

- Developing fundamental AI and MLOps sessions on DataCamp for the ACM AI community.
- Organized AI talks, fireside chats, and AUBPC (AUB Programming Contest).

EECE230X- Open Enrollment Teaching Team Member at AUB

June 2023 - September 2023

- Co-managed with Teaching Team at AUB the offering of EECE230X- Intro to programming to 200 accepted students outside AUB by setting up and correcting the entrance exam for the 500+ applied participants.