

Zina Kamel

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EDUCATION

Lebanese American University

Bachelor of Science in Computer Science, Minor in Data Analytics

GPA 3.93/4.0 – MEPI Tomorrow's Leaders Full Scholarship - Distinguished List - Honors Program

Beirut, Lebanon

Sep. 2020-May 2024

Kent State University

Full Scholarship for a Study Abroad Semester

Relevant Coursework: Natural Language Processing, Computer Networks, Software Engineering

Kent, Ohio, USA

January - May 2023

EXPERIENCE

Robotics and Machine Learning Researcher

January 2023-Present

ATR Lab Kent State University | [Website](#)

- Undergoing research at the ATR Lab around telepresence robotics and artificial intelligence
- Using Nvidia Jetson embedded computing board for AI-based computer vision research
- Researching and programming human-computer interaction and AI applications using Pepper social humanoid robot
- Qualifying to the RoboCup 2023 regionals competition with the Pepper research project

Research Assistant

June 2022-Present

Lebanese American University

- Selected to join LAU's URAD program as an undergraduate researcher
- Worked on publishing a comprehensive public Arabic Calligraphy dataset for Natural Language Processing, consisting of 1980 cleaned and labeled images, under the supervision of the university's Dean of Engineering

Software Engineer - Open Source Fellow

August 2021-December 2021

MLH Fellowship at Meta

- Worked with Meta Research team on their opensource project, LabGraph Monitor, to build an interactive visualisation tool using ReactJS to monitor real-time changes to LabGraph graph and nodes
- Improved the rendering of the graphs by 35% by developing a WebSocket integration for the monitor to parse and render data from the server

Junior Machine Learning Engineer

May 2021-August 2021

Omdena

- Collaborated with senior engineers to implement deep learning algorithms for Cargo box detection and business inspection
- Deployed end-to-end pipeline with machine learning models using TensorFlow and Microsoft Azure

Teaching Assistant

September 2022 – December 2022

Lebanese American University

- Nominated by the chairperson of the Computer Science department to give tutoring sessions in Probability and Statistics

LEADERSHIP

Google Developer Student Club Lead

July 2021-July 2022

- Delivered more than 17 Machine Learning workshops to over 1,700 attendees, including talks streamed on Google MENA
- Led a Core Team of 16 members, who helped in running the events and designing the media
- Founded the first women in tech community in the university

AI Club President and Founder

January 2023-Present

- Established the first AI Club at Kent State University after witnessing the interest in it from the community
- Leading and collaborating with the board members to organise events, talks and competitions.

PROJECTS

Basketball game tracking tool | *Python, TensorFlow, OpenCV, LabelImg, Swagger, ReactJS*

- Developed a Computer Vision software that performs action classification and detection to track the ball and players on a basketball court
- Prototyped several models (including YOLOv4, Fusion, CNN-LSTM, LRCN) using Jupyter Notebooks, while tracking custom metrics and optimizing the models
- Integrated mobile embedded systems with Raspberry Pi in a rover to capture the videos and send them to the cloud server to generate statistics that are displayed on the web application built with React

TECHNICAL SKILLS

Languages: Python, Java, C, PHP, Java Script, SQL, C++, HTML, CSS

Technologies: TensorFlow, OpenCV, Scikit-Learn, PyTorch, Keras, Pandas, NumPy, React, Node.js, Git, Linux, Flask

AWARDS AND ACTIVITIES

Selected by AnitaB as a Grace Hopper Scholar 2022

May 2022

Google Get Ahead Program (invite-only algorithms and data structures training)

July 2021-August 2021

Certified as a data scientist professional by DataCamp | [link to details](#)

August 2021

Selected as one of the 24 Young Tech Leaders of Middle East

June 2021