Zahraa Zaiour

EDUCATION

Lebanese American University (LAU), Beirut, Lebanon — *Bachelor of Science in Computer Science* Sep 2021 - present

Main courses: Introduction to OOP, Object and Data
 Abstraction, Algorithms and Data Structure, Parallel
 Programming, Machine Learning, Fluid Mechanics, Mathematical
 Methods for Physicists, Natural Language Processing, Artificial
 Intelligence.

RESEARCH EXPERIENCE

Undergraduate Research and Discovery Program — *Lebanese American University, School of Arts and Sciences*May 2022 - May 2023

- Participating in a one-year program that engages undergraduate students in research endeavors under faculty guidance.
- Attended intensive lectures and workshops related to research.

Research assistant — Lebanese American University, School of Arts and Sciences

Oct 2023- Jan 2024

 Working on a machine learning (utilizing algebraic topology to produce powerful techniques for image analysis) research paper in collaboration with Dr. Abbas Rammal.

Senior Study — *Lebanese American University, School of Arts and Sciences*

Jan 2023- present

Writing my senior research paper under the title of "A Design of Bayesian Regularization Neural Network to Solve the Model of Accelerating Universe Based Modified Gravity".

CONTACT INFO

Beirut, Lebanon

81-631984

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SKILLS

Technical Skills: Java, Python, SQL, C, Microsoft Skills, Assembly MIPS, Verilog, HTML, PHP, JavaScript, CSS

Soft Skills: accurate, detailoriented, curious, hard worker, Team-worker-Pianist- Leader-Communicator, tutor, ToT attendee

Certifications

Microsoft Innovative Educator- Dec 2022

Microsoft

Introduction to AI- Mar 2023

Zaka AI

Natural language

Processing in Production
Using Aws tools- Feb 2023

Beirut AI

WORK EXPERIENCE

Middle East Airlines (MEA), Beirut — Web Developer Intern Jun 2023 - Aug 2023

• Trainee in the Web development section. Got acquired with HTML, CSS, PHP, and MySQL.

Digital Integrated Systems (IDS), Beirut — Web Developer Intern Jul 2023 - Sep 2023

- Acquired skills in web development
- Contributed to creating a full-stack website for the IDS academy using HTML, CSS, and JavaScript for my frontend. PHP and MySQL for my backend.

LAU Simulation Models, Model Arab League (MAL), Beirut — *Trainer* Sep 2023 - Present

- Training, educating, and guiding over 50 high school students attending LAU from all over Lebanon with Arab League-related material in addition to training them wi to prepare them for their final conference.
- Taught research methods, diplomacy, conflict resolution, and negotiation.

PROJECTS

Face Mask Detection — parallel programming (CSC447)

Apr 2023

Used various parallelization techniques (MPI, OpenMP, and Cuda) to parallelize a face mask detection algorithm and run with the highest efficiency possible.

Virtual Supermarket Software System — *Software Engineering* (CSC490)

Apr 2023

Specified the user and system requirements for a virtual supermarket and implemented the work on a real website with an active database using Oracle.

Predicting Sonar Rocks VS. Mines — *Machine Learning*

(CSC461)

Apr 2023

Implemented a sophisticated Rock Vs. Mine Classification machine learning model using Python. Trained the model on a large dataset sample to predict rocks from mines accurately.

Arabizi Tweets Sentiment

Analysis — Natural Language Processing (CSC498B) Dec 2023

Trained a model on various machine learning techniques(LR, Naive Bayes, SGD Classifier) to be able to predict the label of our sentiment accurately.

EXTRACURRICULAR ACTIVITIES

NGO MMKN, Beirut - tutor Sep 2022 - Dec 2022 Volunteered to tutor physics to grade eight public school students.

LebNet Wit Fellows

Program, member

Nov 2022 - May 2023

Annual Robotics Competition (ARC), Event
Organizer

May 2023- present

LANGUAGES

Arabic: Native or bilingual proficiency, English: Full professional proficiency.