

Amir Amine

Senior Computer Engineering Student

Photographer | Music Producer



+961 76 446 812



amir.amine0209@gmail.com



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PROFESSIONAL EXPERIENCE

Machine Learning Engineer Intern

-Sedbox, Canada (Remotely, sedbox.ca) - 2023-present

Machine Learning Engineer - R&D

Keywords: Supervised Learning, Data Predictions, Genetic Adversarial Networks, Research & Development

Freelance Photographer

-Drugstore 3U S.A.R.L, Beirut, Lebanon - 2022

Product and Portrait Photographer

EDUCATION

Computer Engineering

Lebanese American University, 2020-2025

Bachelor of Engineering (BE),

Expected Graduation Date: **2025**

Photography

Lebanese American University, 2022-2025

Bachelor of Fine Arts (B.F.A.)

Expected Graduation Date: **2025**

Fine Arts

Lebanese American University, 2022-2025

Bachelor of Fine Arts (B.F.A.)

Expected Graduation Date: **2025**

General Sciences

Ashbal el Sahel High School, 2019-2020

Lebanese Baccalaureate

LEADERSHIP ACTIVITIES

Media Officer

-IEEE Lebanese American University Student Branch, 2021-2022

Volunteer

-Lebanese American University

Outreach and Civic Engagement Department, 2021-2023

-Lebanese American University Simulation Models Program, 2020-2023

-Global Classrooms International Model United Nations,

New York, USA March 2021-2023

-Lebanese American University Case Competition, 2021-2022

Robotics Team Member

-FIRST Tech Challenge, Lebanon & Houston, USA 2019

-FIRST Lego League, Lebanon, Jordan, St. Louis USA 2014-2016

SOFTWARE SKILLS

PYTORCH/ TENSORFLOW	<div><div></div></div>
OPENCV/ SCIKIT-LEARN	<div><div></div></div>
PYTHON	<div><div></div></div>
GIT	<div><div></div></div>
SQL/MYSQL	<div><div></div></div>
UNREAL ENGINE	<div><div></div></div>
AZURE/AWS	<div><div></div></div>
JAVA/C#/NET	<div><div></div></div>
ANGULAR/ CSS/HTML	<div><div></div></div>
AUTOCAD	<div><div></div></div>
SOLIDWORKS	<div><div></div></div>
GOOGLE DOCS/ OFFICE SUITE	<div><div></div></div>
ADOBE SUITE	<div><div></div></div>
ABLETON LIVE	<div><div></div></div>

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PROJECTS

-FitChain AI:

-supervised by Dr. Joe Tekli and FitChain Startup Tech Leads

-develop a Computer Vision & Deep Learning model which detects and tracks players, basketball, points scored and actions (i.e. dribbling), based on Yolov7.

-develop solutions to support the data gathering and model training processes (i.e. data clustering), which helps facilitating the training process and increasing model performance.

Keywords: Computer Vision and Deep Learning, PyTorch, Yolov7, Object Detection and Tracking, Data ReID, Data Clustering

- **Ongoing 2023**

-XR Lab Project: AR on a Mural:

The project is in progress and is executed using Unreal Engine 5. The aim of this project is to create an art mural that is recognized using AR technology.

- **Ongoing 2022**

-BMW - SORDI.ai Hackathon:

Utilizing the SORDI.ai dataset, which consists of hundreds of thousands of photo-realistic images for 80+ distinct object classes highlighting logistics, transportation, signage, tools and office assets, rendered in NVIDIA Omniverse using the latest RTX technology and Pixar's USD pipeline, for industrial object detection and recognition.

Keywords: Object Detection, SORDI.ai, Computer Vision and Deep Learning, Synthetic Dataset

- **Completed 2022**

-COE544 Project: Supervised Machine Learning Model based on Optical Character Recognition:

Implement, test and manipulate software agents with intelligent features. The intelligent agent recognizes the characters and assigns labels to them. Accuracy and Precision are calculated to show the performance of the model.

The project is done using Python, and open-source libraries such as sci-kit learning;

Keywords: Supervised Learning, Training Data, Evaluation, Non-parametric Learner, SVM, PEAS

- **Completed 2022**

-COE543 Project: Data Processing Algorithms:

Semi-Structured Text Document Comparison, Differencing and Search using Edit Distance algorithms and Vector Space models; The project was completed using Python;

Keywords: Tree Edit Distance, Cosine Similarity Measure, Document Processing, Patching, Elastic Search, Indexing, Querying

- **Completed 2022**

-COE418 Project: Implement, Design, Test and Manipulate Relational Databases:

Web App, Back End (MySQL and C# + ASP.NET Web API) and Front End (Angular); Keywords: Relational Database, Web API, REST

- **Completed 2021**

-Research Project:

Trend Analysis of Large-Scale Twitter Data Based on Witnesses During a Hazardous Event:

A Case Study on California Wildfire Evacuation; Keywords: Data Analysis, Trend Analysis, Social Media, Research - **Completed 2021**

-FIRST Tech Challenge & FIRST Lego League:

Designing and Programming a Robot under the themes of "Rover Ruckus" (2019), "Trash Trek" (2016), and "World Class" (2015).

Solidworks 3D Model and Simulation - **Completed 2019**

Implement a school-based paper recycling solution to save the fibers - **Completed 2016**

Implement a learning method for autistic children based on learning with water - **Completed 2015**

-LAU Science Fair Web Development:

Web App, Back End (MySQL and C# + ASP.NET) - **Completed 2018**

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CERTIFICATES

- Certificate of Completion, Machine Learning Track, GDSC **Lebanon 2021**
- Certificate of Participation, FIRST Tech Challenge, **Houston 2019**
- Design Award, FIRST Tech Challenge, **Lebanon 2019**
- Position Paper Award, LAU Simulation Models, **Lebanon 2018-2019, NYC 2018**
- First Place Web Development, LAU Science Fair, **Lebanon 2018**
- World Champions Runner-ups, FIRST Lego League, **St. Louis USA 2016**
- Arabia Champions, FIRST Lego League, **Lebanon 2016**
- Robot Game Champions, FIRST Lego League, **Lebanon 2016**
- 3rd Place Research Award, AUB Science Fair, **Lebanon 2016**
- Arabia Champions Runner-ups, FIRST Lego League, **Jordan 2015**
- Gracious Professionalism Award, FIRST Lego League, **Lebanon 2015**
- Certificate of Participation, World Robot Olympics, **Russia 2014**
- Local Champions, World Robot Olympics, **Lebanon 2013**

COURSES

- Lebanese American University*
- Intelligent Engineering Algorithms (COE544) - **LAU**
- Intelligent Data Processing and Application (COE543) - **LAU**
- Software Engineering (COE416) - **LAU**
- Digital Systems (COE424) - **LAU**
- Operating Systems (COE414) - **LAU**
- Database Systems (COE418) - **LAU**
- Microprocessors (COE323) - **LAU**
- Logic Design (COE321) and Logic Design Lab - **LAU**
- Data Structures (COE312) and Data Structures Lab - **LAU**
- Datacamp Courses (www.datacamp.com)*
- Introduction to Python
- Image Processing in Python

PERSONAL SKILLS

- Leadership
- Communication
- Teamwork
- Research

RESEARCH INTERESTS

- Genetic Adversarial Networks
- Computer Vision and Deep Learning
- Machine Learning in Art
- Intelligent Data Processing
- AR, VR, MR, XR

REFERENCES

-Dr. Joe Tekli

Associate Professor of Computer Engineering,
Lebanese American University
joe.tekli@lau.edu.lb

-Dr. Robin Taleb

Associate Professor of Chemistry,
Assistant Dean, XR Lab Supervisor,
Lebanese American University
robin.taleb@lau.edu.lb