Ahmad M. Mustapha

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EDUCATION

From 2018 to 2021	**American University of Beirut (AUB)**	Beirut, Lebanon
	Master in Electric and Computer Engineering	
	Major in Machine Intelligence	
	Expected Date of Graduation: 2021	
	Relevant Courses Taken:	
	Applied Parallel Programming, Natural Language Processing,	
From 2015 to 2017	**Lebanese University**	Beirut, Lebanon
	Master in Information systems and Data Intelligence	
	Relevant Courses Taken:	
	Data Mining, Big Data, Machine Learning, Decision Support,	
	Distributed Applications, Real Time Analysis	
	Rank: 1/13	
From 2012 to 2015	**Lebanese University**	Beirut, Lebanon
	Bachelor in Computer Science	

EXPERIENCE

From 2018 to 2020	**American University of Lebanon (AUB)**	Beirut, Lebanon
	Research Assistance	
	• Formulating Unsupervised Deep Learning Approaches	
Spring 2018-2019 Fall 2019-2020	**American University of Lebanon (AUB)**	Beirut, Lebanon
	Teaching Assistance	
	• Teaching Introduction to Programming C++ (40hrs)	
	• Teaching Computer Organization VHDL/PIC (40hrs)	
From 2017 to 2018	**University of Versailles (UVSQ)**	Versailles, France
	Research Interne	
	• Handling Multidimensional Data from Moving Sensors	

EXTRACURRICULAR ACTIVITIES

- Taught "Introduction to Computer Science" and "Robotics" as a teacher assistant at "TeensWhoCode Bootcamp 2019" for children aged between 12 and 18.

- Participated in "Agrytech Hackathon 2019". Proposed a precision apiculture solution for bee hivers in Lebanon.

PROJECTS ACCOMPLISHED

- Ecommerce website using PHP, MySQL, JS, and AJAX.
- Class Management Android App using PHP Rest Services as a backend.
- Desktop Chat App using Java Remote Method Invocation (RMI) and JavaFX.
- Sudoku Desktop App based on Min-Max Artificial Intelligence (AI) algorithm using C.
- Constrain Class Schedule Generator based on Genetic algorithm using JS.
- Functional Analysis and Classification of air pollution time series using R.
- Parallelized Point in Polyhedron algorithm implementation using CUDA and ThreeJS.

- Data Preprocessing and Visualization using Python, Scikit Learn, Pandas, and Numpy.
- Multidimensional Time Series Analysis Framework using Spark and Scala.
- Building Deep Learning Models for image clustering using Python, Tensorflow, Keras, and Pytorch.
- Object Detection using YOLO Deep Learning Model.

PUBLICATIONS

- Mustapha A., Zeitouni K. and Taher Y. (2018). **Towards Rich Sensor Data Representation – Functional Data Analysis Framework for Opportunistic Mobile Monitoring**.
  GISTAM, DOI: 10.5220/0006788502900295

SKILLS

Languages: Fluent in English and Arabic.
Soft Skills: Visionary Leadership, Communication, Team-Building.