

Moussa Haidous

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EDUCATION

Lebanese American University

BSc in Computer Science
Minor in Mathematics
LAU CS Honors Program
June 2022 | Beirut, Lebanon
Cum. GPA: 4.0 / 4.0

SKILLS

Development

Languages

Java • C++ • C • Python • Swift
PHP • JavaScript • TypeScript •
HTML5 • CSS3 • SCSS • SQL

Technologies

React • React Native • Node.JS •
Socket.IO • MongoDB •
PostgreSQL •
Native iOS Development •
Native Android Development •
Wordpress Theme & Plugin
Development • Git

Soft Skills

Public Speaker • Bilingual
Communicator (English, Arabic)

AWARDS

2019 | **Best Delegate Award** in the
Lebanese American University
Model Arab League

2018 | **Judges Award** in the World
FIRST Tech Challenge
Championship in Houston, Texas

2018 | **Inspire Award** in the
National FIRST Tech Challenge

2017 | **1st place** in the Lebanese
American University Computer
Science Camp Competition

2015 | **2nd place** in the American
University of Beirut Science and
Technology Fair

2013 | **1st place** in the National
World Robot Olympiad

WORK EXPERIENCE

Freelance | Wordpress Developer

March 2020 - Present (300+ hours)

- Build and design various e-commerce sites using Woocommerce, Dokan, WCFM.
- Develop custom Wordpress plugins to connect with multiple 3rd party APIs and integrate with Woocommerce.
- Integrate React Native and Flutter Apps with Woocommerce and Dokan.
- Modify and Develop custom WordPress plugins for unique functionality.
- Communicate with clients on a daily basis.

LAU Model Arab League | Assistant Director of the Training and Educational Development Team

September 2020 - Present

- Prepare training material for the 10th Model Arab League.
- Aid in the transition to online training because of the coronavirus.
- Help in training 30 students to become Model Arab League trainers.
- Research, compose, and edit background guides for the final conference.
- Help in organizing and simulating a conference session.

PROJECTS

Fine | Live Demo, GitHub

A Keras-like library that provides an artificial neural network Python interface built from scratch

- Built purely using Python and Numpy
- Includes layers such as a Dense layer, a Flatten layer, a Dropout layer and a work-in-progress 2D Convolutional layer
- Includes multiple activation layers such as rectified linear (ReLU) and sigmoid
- Includes loss functions such as categorical cross entropy and binary cross entropy with L1 & L2 regularization
- Includes a stochastic gradient descent optimizer with learning rate decay and momentum
- Includes save/load functionality for the models & parameters
- Built a flask server for the purpose of the demo to serve predictions to a pre-trained model on the MNIST database using Fine

UNIX Shell | Live Demo, GitHub

A full featured Unix shell built using C

- Executes every possible unix command and arguments
- Executes commands with infinite piping
- Executes chained commands using the ampersand "&"
- Displays current username & hostname e.g. "moussa@Macbook-Pro \$"
- Compiles and runs itself
- A few custom commands such as "cd" using system calls and "history"
- Built demo using JavaScript & PHP