John Habib

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Education

Lebanese American University | Byblos, Lebanon August 2019 – Present

Bachelor of Engineering in Computer Engineering

Dean's Honor List, Distinguished List Expected, December 2023

Skills & Interests

Programming Languages: Java, Python, JavaScript/HTML/CSS, Database Design/SQL, PHP, C Language, VHDL, Assembly, Verilog, MATLAB

Frameworks and Libraries: Laravel, Scikit, TensorFlow, Bootstrap, Tkinter, NumPy/Pandas, Matplotlib, Seaborn

Tools: Git, Linux

Languages: Arabic (Native), French (Fluent), English (Fluent)

Work Experience

Part-time IT Assistant – LAU Financial Aid Office Sep. 2019 – March 2020

- Resolved 90% of IT issues and dealt with all of the professors' technical problems.
- Conducted weekly checkups on classrooms and reduced IT calls by 75%.
- Prepared conference rooms for important virtual meetings.

Project Experience

Intelligent Hand-Written Character Recognizer

Tkinter, NumPy, Pandas, Scikit-Learn, TensorFlow Sep. 2022 – Dec. 2022

- Conducted extensive research on various supervised machine learning algorithms and selected the most suitable approach for the task using an ensemble solution.
- Designed and implemented the feature extraction and preprocessing pipeline for the input data.
- Trained and fine-tuned the model using a large dataset of handwritten characters.
- Evaluated the performance of each model and combination of models using evaluation metrics, and made improvements as needed.

Shipping System

Laravel, Bootstrap, MySQL, Git Nov. 2022 – Dec. 2022

- Conducted thorough analysis of information needs and created conceptual and logical data models.
- Developed a MVC application that showcases the different entities and their connection using relational databases.
- Established an authentication system to allow admins to log on and manipulate the data.

Room Management System Feb. 2022 – May. 2022

- Programmed a room management system, in Verilog, where different components, such as the PS2 Keyboard, LCD Display, 7-segment displays, and LEDs, were designed and programmed to deliver a certain output based on the user's input on the FPGA.

Music Player Microcontroller Nov. 2021 – Dec. 2021

- Programmed the microcontroller, in Assembly, to play 2 distinctive songs using the dedicated buzzer, as well as displayed the corresponding lyrics on the LCD and matched the blinking of the LEDs to the rhythm.