Mohammad El-Husseini

FULL-STACK DEVELOPER · SOFTWARE ENGINEER

Beirut

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"Believe you can and you're halfway there!"

Summary

As a highly motivated and skilled computer science professional, I am confident in my ability to bring a wealth of expertise to any team or project. With a strong foundation in ML, data structures, OOP, algorithms, API design, and AI. I have experience specializing in the backend development, infrastructure automation, and computer hacking/security. Interested in devising a better problem-solving method for challenging tasks, and learning new technologies and tools if the need arises.

Experience

SiliconCedars / Synopsis
Beirut, Antelias

LOG PARSER AND KNOWLEDGE DISCOVERY SPECIALIST
April. 2023 - July. 2023

- Proficiently used Python for log analysis, enabling data-driven decisions.
- Expert in applying regular expressions to extract patterns from diverse log files.
- Utilized Neo4j and Excel for data visualization, aiding knowledge discovery.
- Collaborated with cross-functional teams to improve system performance.
- Developed and maintained automated log analysis pipelines for rapid issue resolution.

RTMS - Freelance

LEAD DEVELOPER / FOUNDER
April. 2022 - Sep. 2022

- Contributed to the development of RTMS, a medical service web app.
- Designed the user interface using JQuery and integrated Bing API for location-based searches.
- Built a flexible REST API with FastAPI for efficient data processing.
- Created a secure multi-table database with SQLAlchemy and PostgreSQL for user and institution data.
- Implemented a scheduling system for appointment management.
- Developed a user profile tracker for medical history and prescriptions.
- Designed a medical sharing feature with delivery services to reduce waste and promote community sharing.

Codast - Freelance

LEAD ML DEVELOPER / FOUNDER
Dec. 2023 - April. 2024

- LLM model as Code Assistant Chatbot.
- Developed for assistance in several programming languages especially python as opensource, offline and untracked usage.
- FineTuned from DeepSeekCoder (opensource) which is competitor of gpt-4 and exceeds gpt-3.5 turbo.
- Quantized using Q-4-GGUF quantization to inference on cheap resources without GPUs.
- Used text-generation-webui framework for chatting and instructing.

Skills

Data Science	Tensorflow, Keras, Sklearn, Pandas, Numpy, LLM, NLP
Back-end	REST API, Django, FastAPI, SQLAlchemy, PostgreSQL
Front-end	HTML5, CSS3, JavaScript, React, jQuery, BootStrap
Cyber Security	Kali Linux, Metasploit, Reconnaissance, Penetration Testing, Virtualization
Programming	Python, Java, Node.js, C, C++, Bash, PowerShell
Embedded Systems	Arduino, FREERTOS, Proteus, Microcontroller Programming
DevOps	Git, Docker, Office
Languages	English (fluent), Arabic (native)

Education

Lebanese International University - LIU
Tyre

B.S. IN COMPUTER SCIENCE AND ENGINEERING
Oct. 2019 - Sep. 2022

Projects

Chat App

Client-Server Project

- Setup endpoints to send/read messages, and chatrooms with pagination.
- Setup websocket to receive and send messages in real-time.

Home Fire Alarm and Security System

Embedded System Engineer

- Coordinated a team to design and develop a fire alarm and security system.
- Developed a smoke sensor for fire detection and alarm triggering.
- Implemented a digital door lock for enhanced security.
- Designed a fire emergency door unlocking algorithm for safe evacuations.

Automated Car Control System (Simulation)

Embedded System Engineer

- Collaborated on a team to develop a smart car control system.
- Designed a sensor-based wiper system for optimal visibility in rain.
- Created a speed alarm system to promote safe driving practices.
- Designed temperature-regulating smart seats for enhanced comfort.

Handwritten Digit Recognition

ML Engineer

- Created a model that can recognize handwritten digits (from 0 to 9).
- Used Sklearn and Tensorflow/Keras to pre-process data for the model.
- Used MNIST Dataset to train on image recognition dataset.

To-Do List App

Web Developer

- Built to-do list app with features like adding, editing, and deleting tasks.