

Fouad Soubra

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Objective

To apply my expertise in **Computer Engineering**, programming languages, and software development to contribute to the development and implementation of innovative software solutions. Seeking a challenging position that allows me to apply my problem-solving abilities and passion for technology in a dynamic and collaborative environment.

Education

Beirut Arab University

Bachelor in Computer Engineering

GPA: 3.82/4.00

2020 - 2024

Work Experience

IDS Integrated Digital Systems

August 2023 - September 2023

.Net Full stack developer Intern

Beirut, Lebanon

- Acquired skills in a range of technologies and tools, including **MVC Framework, AJAX, jQuery, SQL Server 2014, ASP.NET/MVC, C#.NET, and Entity Framework Core (6.0/7.0)**.
- Designed and implemented a Meeting Room Booking System website, addressing challenges in UI, database optimization, and **API** security and connection.
- Gained valuable skills in web development, database management, and project execution.

Skills

Programming languages: C, Python (NumPy, pandas, Tkinter), PHP, Java, SQL, Assembly

Frameworks & Tools: ASP.NET/MVC, Entity Framework Core (6.0/7.0), AJAX, jQuery, Git (Version Control)

Markup & Styling: HTML, CSS

Hardware: Arduino, VHDL, Esp8266, PIC16F877A(Basic)

SDLC Methodologies: Agile, Kanban, Waterfall

Soft Skills: Problem solving, Adaptability, Project management, Communication skills, Active listening.

Projects

WE RESCUE – Wireless sensor network Enabled Remote Emergency System for Crisis Utility and Exploration

Final Year Project (4 months)

- Developed an innovative disaster recovery system that creates its own network to enable communication and navigation in inaccessible areas.
- Developed software for **ESP32 microcontroller** that enables the creation of a **mesh network** allowing the recovery robot to maintain communication in areas without infrastructure, sending critical live streaming data, displayed on a web server for remote monitoring.
- Implemented **YOLO v7** for real-time object detection, identifying humans and other critical entities.
- Integrated Python-based image and data processing on a Raspberry Pi for real-time mapping and system control.
- Demonstrated expertise in **networking, robotics, and embedded systems**.

Food Ordering System

- Collaborated in a team to develop a food ordering system, built In three languages **C, Python (GUI), and Java**.
- Designed a user-friendly interface and utilized **MySQL** for efficient data management, including insertion, deletion, updating, and retrieval of data.
- Took Responsibility for system **implementation, testing, and debugging**.

Meeting Room Booking System

- Developed a website using **PHP** and **MySQL**, with a focus on creating an intuitive **UI** and front-end functionality for managing meeting room reservations.

Machine Learning and Data Analysis

- **Image Recognition using CNN:** Developed a model to identify handwritten digits (0-9) using Convolutional Neural Networks (CNN). Fine-tuned the model for optimal accuracy, showcasing practical knowledge in machine learning and computer vision.
- **Heart Disease Prediction using SVM:** Researched and implemented Support Vector Machine (SVM) algorithms on a heart disease dataset, achieving over 80% prediction accuracy. Applied kernel functions and visualized results in a 3D space to enhance model interpretability.

Achievements & Awards

1st Place in Robotic D.A.R.E Competition

LAU School of Engineering, April 2024

The “WE RESCUE” team won against top universities in Lebanon developing a cost- effective disaster response solution with a budget of 500\$.

Certificate in responsive web design:

freeCodeCamp, Aug 2021

Developed five responsive web design projects during the Responsive Web Design course.

Cisco certified IT-Essential:

Cisco, Dec 2021

PC Hardware and software, install computer components, implement security, and troubleshoot hardware and software issues.

Languages

Arabic: *Native Language*

English: *Fluent*

French: *Fluent*