Hadi R. Al-Sandid

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PROFILE

Computer Engineering Senior, with an interest in the fields of Embbeded Hardware/Software and Computer Networking.

EXPERIENCE

American University of Beirut   Jun 2020 - Aug 2020
Internship - **Google AI-Impact Project**
Supervisor: Dr. Mazen Saghir

Worked on an Irrigation Management System, which allows Lebanese farmers to use water resources more efficiently on their agricultural fields. This includes developing an on-site hardware solution to control irrigation routines using embedded Linux systems for automation and custom PCB designs to support additional wireless technologies (LoRa/GSM); as well as developing a local web-panel to allow users to access agricultural data related to their fields.

EDUCATION

American University of Beirut   Sep 2017 - Present
BE, Computer and Communications Engineering
GPA : 3.7/4.0

Relevant Coursework: Operating Systems, Embedded Microprocessor Systems, Network Security, Database Systems, Software Architecture and Design, Data Structures and Algorithms

PROJECTS

Arrow - **Vector Accelerator Unit** *(Senior Project)*   Sep 2020 - April 2021

Worked on a tightly-coupled Vector Accelerator unit that is compliant with the recent RISC-V Vector ISA (v0.9), and designed to support Machine Learning applications. I was responsible of the software component of this project, which consisted in working with the LLVM/Clang RISC-V cross-compiler to optimize code for our hardware and add new instructions, as well as develop benchmarks used to assess the performance and power consumption of our accelerator.

Chat-Service Back-End *(Course Project)*   Feb 2020 - May 2020

Developed a Chat Service back-end system using the ASP.NET Core framework and the Azure DevOps platform. The back-end codebase is composed of several deployable microservices, which offer a RESTful API along with Logging/Storage components and a Test suite.

SKILLS

Hardware	Familiar with PCB Design and Cross-Compilation Toolchains (GNU/GCC, LLVM/Clang)
Software	Proficient in C/C++. Familiar with Python, Java, and C#.
Networking	Familiar with network configuration on Linux distributions (Red Hat, CentOs..).

- Fluent in both English and French

- Ability to coordinate & communicate with team members, to properly manage technical projects.

- Willing to adapt, and cooperate with more experienced teammates, to overcome project challenges and constraints.

AWARDS & INTERESTS

- Academic Awards : Dean's Honor List on Spring 2018, Fall 2020, and Fall 2021 semesters.

- Interests : Outdoor activities and Team Sports (Football, Tennis, Hiking..); Participated in different workshops related to Robotics and Artifical Intelligence; Game Development (using Source Engine/Unity), and 3D Modeling/Animation.