Ihab Tabbara

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EDUCATION

American University of Beirut
BE Computer and Communication Engineering *GPA: 4.0* 2020 - 2024

University of Toronto (Exchange Semester)
Computer Engineering 2022 - 2022

International School of Choueifat - Sabis
GPA: 4.0 (top 5%) 2005 - 2020

EXPERIENCE

Amazon X IEEE Industry Program
Software Intern July 2022 - September 2022

- Enrolled in a series of software engineering workshops held by Amazon engineers
- Worked as a software intern on front-end web design (Bootstrap, Java)
- Developed the Lean Canvas for the group's project
- Learned basic back-end programming in Java

American University of Beirut
Lab assistant September 2021 - January 2022

- Worked as lab assistant for ECE410L (System Integration Laboratory) by helping students in the lab (technical help related to electronics)
- Worked on PCB building, soldering, testing components

Tabbara Electronics
Cashier 2019 - 2021

- Worked as a sub-cashier
- Helped in shop and inventory maintenance

Sabis
Tutoring experience 2018 - 2020

- Gave daily lessons to students while giving special help to those with learning disabilities
- Acted as head academic prefect and developed after-school programs

Russian Cultrual Institute
Karate Instructor 2016 - 2020

- Participated in Regional tournaments with Lebanon's National team (acquired 23 medals)
- Gave classes in several dojos (Russian Cultural Institute, Riyadeh)

NOTABLE PROJECTS

Chatting Application with Loss protection Using UDP *Python, Linux, Netem*

- Built a fully reliable chatting application that supports transfer of all data types and sizes
- Implemented a new set of protocols above UDP to make the application fully reliable
- Application handles data loss, duplication, delay

4-Way Traffic Light System *VHDL, Vivado*

- Implemented a finite state machine for a NEXYS4 that controls traffic lights based on road congestion
- System was successfully used to improve traffic management on 4-way checkpoints

SKILLS

• **Programming Languages:**	C++, C, Python, html, VHDL, Verilog, Assembly for microprocessors
• **Machine Learning and Data Science:**	Python, Jax
• **Basic Front End Programming:**	Html, Bootstrap, java
• **Micrprocessors:**	Arduino, Pic family, Nexys4
• **Control systems:**	Matlab (Simulink) and Arduino
• **Algorithms and Data Structures:**	C++, Python
• **Typesetting System:**	Latex (Overleaf)
• **Spoken Languages:**	English (Fluent), French (Fluent), Arabic (Fluent)