

Seraj Abo Sabbah

Software Engineer

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Technical Skills

Languages and tools: Java, JavaScript, HTML, CSS, C++, C, SQL, Git, JUnit, LaTeX

Work Experience

Department of Computer Science (The University of British Columbia)

Vancouver, BC

TEACHING ASSISTANT(APSC 160)

Jan. 2020 - Present

- Led weekly tutorials guiding students through core programming concepts and debugging in C
- Supervised labs and helped students improve their skills in abstraction, analysis and simulation, data acquisition and processing
- Marked exams, quizzes, assignments, lab reports and project reports

Al-Samood (Education non-profit)

Baalbek, Lebanon

TUTOR

Jun. 2019 - Aug. 2019

- Led 150+ hours of teaching and coaching sessions in mathematics and physics for children in poverty
- Devised practice examination material for students taking the official Lebanese Baccalaureate, increasing pass-rate by 25%
- Taught a course to help impoverished children utilize sustainable farming systems (Aquaponics) for poverty alleviation

United Nations (Sustainable Energy Competition)

Beirut, Lebanon

PROJECT LEADER

Jan. 2018 - Jan. 2019

- Collaborated with teammates in order to implement solar powered lighting systems in a refugee camp, voted one of the top projects by the council and community
- Led a group of students and was responsible for project implementation, troubleshooting issues, and accordingly strategizing solutions for project success. Facilitated administrative aspects of the program, such as transportation and lodging
- Identified the requirements and needs to meet the project delivery schedule and design specifications to meet certain needs of the target audience

Projects

Sudoku Solver | HTML, CSS, JavaScript

[WebPage Link](#)

PERSONAL PROJECT

- Used generative recursion and backtracking in order to solve a sudoku game
- Implemented the design in functional programming and OOP

GetItDone | Java

[Github Repo](#)

PERSONAL PROJECT

- Allowed the user to keep track of their tasks and see their to-do list
- Achieved 100% code coverage using JUnit testing
- Used JavaAWT for GUI

Simon Game | C, DAQ.lib

[Github Repo](#)

PERSONAL PROJECT

- Used DAQ simulator to display the generated light patterns
- Developed faster response to the user input without any delays

Binder | Java, MySQL

[Github Repo](#)

PERSONAL PROJECT

- Provided users with the ability to swipe left or right to match with other registered users
- Used design patterns such as Iterator, Composite and Observer Patterns
- Used JavaFx for GUI

Education

The University of British Columbia

Vancouver, Canada

B.Sc. IN COMPUTER SCIENCE AND MATHEMATICS

Aug. 2019 - Apr. 2023

GPA:3.9/4.0

Academic Awards

- *Donald A. Wehrung International Student Award:* Full tuition scholarship recognizing international undergraduate students from impoverished countries who achieved academic excellence.
- *Dean's Honour List:* Awarded to students with a standing of 80% or better in the previous Winter Session.