

Rachel Heo

1B Software Engineering

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SKILLS

Technical Skills: C, C++, Python, HTML/CSS, Bash/Zsh, Git, Arduino

Languages: English: Native, Korean: Native

EDUCATION

UNIVERSITY OF WATERLOO

Waterloo, ON

Bachelor of Software Engineering

Expected 2027

Relevant Coursework: CS 137 Programming Principles, MATH 115 Linear Algebra for Engineering, CS 138 Introduction to Data

Abstraction and Implementation, ECE 140 Linear Circuits

SIMON FRASER UNIVERSITY

Burnaby, BC

Enrolled concurrently with highschool

Sept 2021 - May 2022

Courses taken: CMPT130 Intro to Computer Programming I, CMPT135 Intro to Computer Programming II

What I learned: Programming in **C++**, **object-oriented programming**, **dynamic memory**, **data structures (linked list, stack, binary tree, array)**, **algorithms (sorting, recursive, searching)**

PROJECTS

[BLACKJACK](#)

- Designed and implemented blackjack game operations and functions using **C++**
- Enabled users to be given advice by the bot based on the current standing of cards
- Dealt with **linked lists**, **pointers**, **structs**, and **arrays**

[WEATHER BOX](#)

- Designed and implemented **embedded** code from **Arduino** to a microcontroller using **C** and **C++** using the **ArduinoIDE**
- Simulates outdoor weather in a little box using LED lights, fans, servo, laptop speaker
- Dealt with **weather API**, **Network time protocol**, **microcontroller**, and **electric circuits**

WORK EXPERIENCE

SOCIAL DIVERSITY FOR CHILDREN FOUNDATION (charity)

Vancouver, BC

Chief of Staff

Sept 2020 - Jul 2022

- Exhibited excellent collaboration skills by building relationships with community partners and securing donations from businesses.
- Organized two large-scale galas with 300+ attendees and raised \$400,000+ to support children with disabilities
- Applied for charity grants and organized informative resources for people with disabilities
- Scoped out, planned and delegated tasks to 30+ team members

BONGA KOREAN RESTAURANT

Surrey, BC

Server

Jun 2021 - Jul 2022

- Proved leadership experience from training up to 20 new employees
- Demonstrated communication skills through engaging with customers
- Executed top quality customer service and averaged 20+% tip in a high-paced work environment

MILLENNIUM STEM BC

Vancouver, BC

Operations Manager

Sept 2020 - May 2022

- Introduced the STEM field to youth as well as addressing gender discrepancies in technology-related fields
- Organized webinars and successfully invited various guest speakers with professional expertise as astrophysicists, startup founders, software engineers, etc.
- Managed logistics of events such as goals and objectives, venue, event timeline, and organizing volunteers
- Conducted 50+ interviews and reviewed application for hiring new members

AWARDS

- Fraser Heights Secondary Academic Excellence Award 2021 (top 10 average grade)
- Prosper+ Highschool Case Competition 1st 2020 (out of 50+ teams)
- UBC MiniEnterprize Highschool Case Competition 3rd 2020 (out of 50+ teams)