

# RachelHeo

## 1B Software Engineering

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### SKILLS

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

**Languages:** English: Native, Korean: Native

### EDUCATION

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#### UNIVERSITY OF WATERLOO

Waterloo, ON

Bachelor of Software Engineering

Expected 2027

Relevant Coursework: CS 137 Programming Principles (**C**), 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

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#### [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

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#### SOCIAL DIVERSITY FOR CHILDREN FOUNDATION

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

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- 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)