

# Rachel Heo

## 1B Software Engineering

rheo@uwaterloo.ca | (604)-355-8209 | [Github](#) | [LinkedIn](#)

### SKILLS

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**Technical Skills:** C, C++, Python, HTML/CSS, 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, MATH 115 Linear Algebra for Engineering, CS 138 Introduction to Data

Abstraction and Implementation, ECE 140 Linear Circuits

#### SIMON FRASER UNIVERSITY

Burnaby, BC

Concurrent studies during highschool

Sept 2021 - May 2022

Courses taken: CMPT130, CMPT135

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**, **dynamic memory**, **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 (charity)

Vancouver, BC

Chief of Staff

Sept 2020 - Jul 2022

- Practiced interpersonal skills through managing a tight-knit team
- Organized large scaled galas with 300+ attendees and raised \$400,000+
- Applied for charity grants and organized informative resources for people with disabilities
- Scoped out, planned and distributed tasks to a team of 30

#### MILLENNIUM STEM BC

Vancouver, BC

Operations Manager

Sept 2020 - May 2022

- Introduced the STEM field to youth as well as addressed gender discrepancies in technology-related fields
- Planned out webinars and contacted guest speakers within variety of STEM field (scholar in astrophysics, startup founders, software engineers, etc.)
- Worked on 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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- District/Authority Scholarship in Community Service 2022 (top 5000 students in the district)
- University of Waterloo President's Scholarship of Distinction 2022 (95%+ entrance admission average)
- Fraser Heights Secondary Principal's Honour Roll 2019-2022 (4.0+ GPA)
- 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)