

JUSTIN CHHAY

1B Computer Engineering • 647-234-4608

jchhay@uwaterloo.ca • [LinkedIn](#) • [GitHub](#) • [Website](#)

SUMMARY OF SKILLS

- *Languages:* C++, Java, Python, HTML, CSS, JavaScript
- *Dev Tools:* VS Code, Eclipse, Arduino, Basic Linux Command Line, Git/GitHub
- *Programs:* SketchUp, VirtualBox, Adobe Photoshop, Premiere Pro, Microsoft Word, Excel

PROJECTS

Coronavirus Statistics API Discord Bot, Python

- Implemented Python and Discord.py, Coronavirus statistics API to retrieve data and display real-time Covid-19 statistics for each country dependent on user commands and parameters
- Integrated a categorization function to rank Covid-19 case severity within specific countries and assign an appropriate colour symbol within the Discord Embed message object from the Bot

Transaction History ACB/CGL Robo-Advisor, C++

- Implemented two classes to create a History LinkedList to extract detailed transactions information from a .TXT file and calculate the adjusted cost base and capital gain or loss for each transaction object
- Developed multiple methods including a LinkedList sort algorithm using dynamic allocation of pointers to allocate and delete memory for the transaction objects

Rock Paper Scissors Website, HTML/CSS/JS

- Designed website UI and content using HTML/CSS and Chrome DevTools for formatting and debugging
- Developed game logic and browser window prompts using JavaScript

WORK EXPERIENCE

Summer Sports Program Staff, Youth Unlimited

May 2021 – Jul 2021

- Organized Covid guideline regulated sports drills and activities for 20 students ages 5 to 17
- Strategized to increase the program's community outreach through increasing program locations and hours, which resulted in increased youth participation and attendance by 25%
- Hosted regular presentations to educate students about overcoming academic and personal challenges

EXTRA-CURRICULAR ACTIVITIES

Vice President of Technology, Junior Achievement Company

Oct 2019 – Jun 2021

- Co-Founder of Junior Achievement companies, Eco-Cradle and StudyPod
- Designed prototype for phone charging stands made from recycled election signs and manufactured 400 units, earning \$1100 in total profits
- Directed marketing among multiple departments to manage e-commerce website and social media

President, Wellness @ Mackenzie Club

Sep 2018 – Jun 2021

- Organized biweekly school-wide panels and initiatives for 300+ students, such as an informative Q&A panel featuring alumni from various fields to discuss their personal post-secondary experiences
- Facilitated mental health-based workshops for school community (working with groups of 15 students)

EDUCATION

BASc Candidate for Honours Computer Engineering, University of Waterloo

Sep 2021 – Sep 2026

INTERESTS & HOBBIES: Fingerstyle guitar, biking, sports, camping, transportation