

# BRAYDON WANG

Computer Science student at the University of Waterloo

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## SKILLS

- Algorithms and Data Structures
- Data Science and Statistics
- Programming Languages: Java, C++, Python, HTML, CSS
- Web Development and Graphic Design
- Tools: Pandas, Numpy, Scikit-learn, Matplotlib, Seaborn, Keras
- Public Speaking and Leadership
- Machine Learning

## PROJECTS

### **DubG Video Game**

Multiplayer, action-arcade, battle royale shooter game. Uses networking with server sockets and packets to allow the user to either be the server and host a game, or be the client and join an existing game.

Github: <https://github.com/braydonwang/DubG>

### **Huffman Encoding Project**

Program that encodes data from a file using the Huffman Coding method. Creates a binary tree using the frequency of every byte in the file, then maps each byte to a shorter representation, and places the encoded message in a separate file.

Github: <https://github.com/braydonwang/Huffman-Encoder>

### **Duber Chat Software**

Chat software similar to Discord made using server and client sockets, and Java Swing. The server can create chat groups, see group messages, and has access to the server log, while the client is able to join chat groups and privately message online users.

Github: <https://github.com/braydonwang/Duber-Chat-Software>

### **Competitive Programming Solutions**

List of my competitive programming solutions for platforms including DM::OJ, Codeforces, and Leetcode. Written in programming languages including Java, C++ and Python. Problems range from CCC to COCI to USACO.

Github: <https://github.com/braydonwang/Competitive-Programming-Solutions>

## VOLUNTEERING EXPERIENCE

### **Computer Science Club, Richmond Hill HS** **Senior Executive**

SEPT 2020 - JUNE 2021

Responsible for leading the contest group of the club. Planned, developed and taught presentations each week that focused on a different topic related to algorithms and data structures.

### **IHCAS, Youth-Led Non-Profit Organization**

**Web Developer & Graphic Designer** JUNE 2020 - APR 2021

Responsible for creating and designing informative posts for the organization to display on social media. Also responsible for updating and developing the organization's home website.

## EDUCATION

**University of Waterloo** Graduation May 2026  
Honours Computer Science - Co-op  
Admission Average: 98%

**Richmond Hill High School** Sept 2017 - June 2021  
Ontario Secondary School Diploma

## CONTESTS AND AWARDS

**CCC Senior 2021** - 53/75, 99th place, 96th percentile  
**CSMC 2020** - 57/60, 12th place, 99th percentile  
**Euclid 2021** - 93/100, 77th place, 99th percentile  
**CCC 2020** - 37/75, 115th place, 95th percentile  
**President's Scholarship of Distinction 2021**