

Hayden Long Hei Mak

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EDUCATION

University of Toronto

Honours Bachelor of Science in Computer Science – cGPA: 3.78/4.0

Toronto, ON

Sep. 2019 – May 2023

RELEVANT COURSEWORK

- Data Structures and Analysis
- Software Design
- Algorithms Analysis
- Software Tools and Systems Programming
- Computer Organization
- Introduction to Software Engineering
- Principles of Programming Languages
- Algorithm Design and Analysis

PROJECTS

Schmart App (Languages: React Native, Flask) Hack the Valley - 1st Place ([Devpost](#))

October 2021

- Worked alongside 3 others to create a smart shopping app using React Native. We implemented a barcode scanner which scanned objects and queried a nutrition API to obtain the nutritional information about the object and dynamically updated a chart
- Worked on the user registration and login authentication in the frontend using React Native and backend using Flask, creating a simple system to register and log in

Doodle Jump Clone (Language: MIPS Assembly),

April 2021

- Used the display module in MARS IDE for MIPS Assembly language to simulate a screen
- Manipulated memory to change the pixels on the simulated screen and work on the logic of Doodle Jump. Features included score keeping, changing message and smaller and smaller platforms

Transit System Simulation (Language: Java)

December 2020

- Applied the MVC model to create a transit system simulator for subways and train lines. Our team built the command-line interface to add lines/stations, calculated fares, and users could view their balance and trips
- Developed the backend for the storage of the transit network with storage using a JSON file and the parsing of the input from the command line into commands and user properties

EXPERIENCE

Photos Editor

Jul. 2021 – Current

The Medium. themedium.ca

Mississauga, ON

- Curated photographs for all articles for the weekly newspaper issue for the publishing process
- Organized the photography team of 300 student volunteers to cover events and take photo assignments
- Organized the individual team headshot schedule and posting onto the Medium website

Logistics Officer

Aug. 2021 – Current

UTM Computer Science Student Community (CSSC)

Mississauga, ON

- Planned and executed initiative ideas such as International Student Experience and in-person meetup
- Facilitate the smooth logistics of CSSC events online
- Organized and coordinated an online scavenger hunt for the Deerfrosh MCS Orientation

Facilitated Study Group Leader for CSC148 - Introduction to Computer Science

University of Toronto Mississauga

Mississauga, ON

- Planned and executed lesson plans for the weekly Facilitated Study Group sessions for CSC148 of 5-20 students
- Went over exercises for course material, including recursion, trees, binary search trees and time complexity

PROGRAMMING SKILLS

Languages: Python, Java, C, JavaScript, HTML/CSS, Racket, Haskell

Developer Tools: Git, Docker, VS Code, PyCharm, IntelliJ, Eclipse, R Studio

Frameworks: Flutter, Flask, React Native