

Donghyun Daniel Ko

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SKILLS

Languages: Java, C++, C#, C, HTML, CSS, JavaScript, Dart

Technologies: Git, Unity, Blender, Android, MySQL, Bash

Frameworks: Flutter

EXPERIENCE

Quality Assurance Test Engineer Co-op

Vancouver, B.C.

Enightful

Sept. 2020 - Present

- **Designed** and **built** test plans considering different matrices
- Reported bugs and defects by **tracing** possible causes and validated fixes
- Conducted **Agile Iterative Testing**
- Planned and scripted **automated** testing

Student Body President

Vancouver, B.C.

Handsworth Secondary School

Jun. 2018 - Jun. 2019

- Organized/fundraised **30+** events for the Lions Gate Hospital, Harvest Project, and North Shore Youth Safe House
- Directly in charge of **50+ members** consisting of students and school staff and elected to represent **1500 students**
- **Coordinated meetings** and **communicated** with the school and multiple partnering companies for events

PROJECTS

Independence MedHacks Project

Sept. 2020

- Created an app with **Flutter** and **Dart** to assess the physical and mental status of elderly patients
- Implemented **text-to-speech** and **speech-to-text** features and a **Firebase** database

Sonic Recreation

Mar. 2020 - Jun. 2020

- Recreated the 1991 Sonic the Hedgehog as a 2D **Java** game with additional **server** and **Android** applications
- Utilized **Tomcat Apache** to generate the **Java Servlet** and followed the **request-response** model
- Applied **MySQL** to manage player data for the **multiplayer** component

Autonomous Checkers-playing Robotic Arm

Sept. 2019 - Dec. 2019

- Built an **autonomous** robotic arm able to play a game of Checkers against a human player
- Programmed the game logic with **C++** and incorporated **game theory logic** and **algorithms**
- Employed an **Arduino Due** to control the hardware

ACHIEVEMENTS

- **Huawei Ascend Innovation Award:** Best use of Huawei Atlas 200 DK at MakeUofT 2020 Feb. 2020
- **BC Achievement Scholarship:** Top 8000 graduates of B.C. Oct. 2019
- **Seanna & Nicole Strongman Award:** Best "All Round" graduate of secondary school Jun. 2019
- **Joyce A. Borrie and George W. Stevenson Memorial Scholarship:** Excellent citizenship Jun. 2019

EDUCATION

University of Waterloo

Waterloo, ON

Bachelor of Software Engineering

Expected Graduation 2025