

# Donghyun Daniel Ko

✉ kodaniel2015@gmail.com ☎ (778) 903-5277 in /in/danieldonghyunko 🌐 /Dandoko 🌐 dandoko.ca

## SKILLS

**Languages:** C++, C, Java, JavaScript, TypeScript, HTML, CSS, SCSS, C#, Dart, UML

**Technologies:** Git, MongoDB, NodeJS, MySQL, Bash, Unity, Blender, Selenium, Vim, Android

**Frameworks:** AngularJS, ExpressJS, Flutter

## EXPERIENCE

### Quality Assurance Test Engineer

Vancouver, B.C.

Enightful

Sept. 2020 - Dec. 2020

- Designed **Test Plans** and **Test Cases** for complex web applications
- Conducted **Regression**, **Exploratory**, **Black Box**, and **Validation** Testing on front-end products
- Tested **RESTful** interfaces using Postman
- **Triaged** and documented test results and **ticketed** on **Jira** and **Asana**
- **Automated** scripts using Selenium WebDriver, **Java**, TestNG Framework, and **Data Driven Testing**
- Undertook Agile **Scrum** Development

### Student Body President

Vancouver, B.C.

Handsworth Secondary School

Jun. 2018 - Jun. 2019

- Directly in charge of **50+ members** consisting of students and school staff and **elected** to represent **1500 students**
- Conducted at least **2 meetings per week** and presented **public speeches** for assemblies, events, and interviews
- Organized/fundraised **30+** events for the Lions Gate Hospital, Harvest Project, and North Shore Youth Safe House

## PROJECTS

### Kanban Board

Nov. 2020 - Dec. 2020

- Created a Kanban Board **web application** with the **MEAN** stack
- Implemented an **HTTP RESTful** structure and **JWT** for user authentication
- Developed **CRUD** operations as features for the tasks and columns of the Kanban Board

### 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 **HTTP request-response** model
- Applied **MySQL** to manage player data for the **multiplayer** component
- Wrote **UML Sequence Diagrams** and **Use Cases** for the server side and **Class Diagrams** for the client side

### 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 high school graduates of British Columbia Oct. 2019

## EDUCATION

### University of Waterloo

Waterloo, ON

Bachelor of Software Engineering

Expected Graduation 2025