

# Daniel (Haoxuan) Zhang

3B Computer Science with Software Engineering & Business Specialization Honours Co-operative Program Student

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<https://DanielScorpion.github.io>

## QUALIFICATIONS

- Enthusiastic, inquisitive, adaptive, responsible and organized worker with strong leadership and team-working skills
- Communicative learner with critical and logical thinking skills seeking growth through collaboration and development
- 7+ years of wide-range programming and project experience by extensive training and extracurricular projects
- Experience in Python, C, C++, Java, Racket, HTML, CSS, Bash, Linux, AODA, Android, MS Office, SQL, Turing, Git, Arduino, etc.

## EDUCATION

Candidate for **Bachelor of Computer Science (BCS) with Software Engineering & Business Specialization Honours Co-op**

University of Waterloo, Waterloo, ON

Sept.2017 – Present

## RELEVANT AWARDS

**University of Waterloo President's Scholarship of Distinction** for Entrance Academic Average of **97%** 2017

**Medal of the Governor General of Canada** for Highest Academic Average of **97%** and Achievements in Grade 11 & 12 2017

**Ontario Volunteer Services Award** with over **600** Volunteering Hours 2016

## RELEVANT WORK EXPERIENCE

**Consultants for Government and Industries (CGI) - Markham, ON | Developer**

Sept.2019 – Apr.2020

- Consistent excellent performance and demonstration of software developmental responsibilities throughout all tasks
- Developed Java web-based applications and automated scripts while ensuring quality programming through rigorous testing
- Proposed enhancements through constructing and managing technical process documentation and knowledge libraries
- Integrated solutions with respect to client requirements through both front-end developing and back-end developing

**Ontario Ministry of Education - Toronto, ON | IT Quality Assurance Assistant**

May.2018 – Dec.2018

- Earned "Outstanding" performance evaluation and feedback for roles in Quality Assurance as well as Software Developing
- Operated efficiently in numerous teams with SDLC, Waterfall and Agile knowledge throughout projects' development
- Proficiently developed and executed automated and manual test plans and test cases to identify and debug software issues
- Worked with Selenium, .NET, Azure, NodeJS, Angular, UFT, HP ALM, AODA, SharePoint, Cognos, TFS, SQL, C/C++, HTML, etc.

## OTHER WORK & VOLUNTEERING EXPERIENCE

**UW Senior Math Ambassador, UW Orientation Pink Tie Leader, camp counsellor, teaching assistant, CS/Math/English tutor, etc.**

- Enhanced soft skills and core values such as project management, teamwork, integrity, compassion, solidarity and more

## RELEVANT PROJECTS

**HTML/CSS Portfolio Website**

Sept.2020

- Website project built in one day that utilized HTML and CSS to display personal portfolio details and information

**Photo to Text Automated Typer**

Feb.2020

- Automated Python program convert words within a photo into text and accurately typing out the translation at ~1200 wpm
- Resolved issues that disallowed copy-pasting by automating scripts to retrieve text easy and time efficient

**Rubik's Cube Solver**

Apr.2019

- Utilized a Java program to retrieve cube state to compute the most efficient solution using God's Algorithm for 3x3x3 Rubik's Cubes, which is then translated into a C program that commands an Arduino circuit with 6 motors to solve a Rubik's Cube

**Mobile Emergency Evacuation Management Application (E.E.M.A.)**

Jan.2019

- Mobile app designed to collect listed contacts' status updates to replace traditional name-calling in facility evacuation cases
- Developed using tools including Android Studio, Google Maps as well as cellular permissions

**Automated Task Manager**

May.2018 – Jan.2019

- Task manager made with Selenium that executes specific compilations of pre-designed tasks and user commands

**Line Following Robot**

May.2017

- Self-designed robot running C algorithms built with ATMEGA8 microcontroller chip, motors and sensors to follow given lines

**Game Platform**

Nov.2016 – Jan.2018

- Enriched experience through implementing machine learning A.I. logics, algorithms and graphics in various languages
- Games include Sudoku Solver, AI TicTacToe, Chess, dice games, Blackjack, Tetris, Snake and various digital or board games

## OTHER ACTIVITIES & PROJECTS

StarterHacks 2019, sheet music to MIDI convertor, PC and mobile apps (i.e. calendar, task-book, photo album music player), etc.

## OTHER EXTRACURRICULAR ACTIVITIES & INTERESTS

Developing useful applications and utilities, my cats, Rubik's Cubes, Yo-Yo, puzzles, piano, flute, magic tricks, etc.