

Daniel (Haoxuan) Zhang

Computer Science with Business Specialization Honours Co-operative Program Graduating Student

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<https://DanielScorpion.github.io>

QUALIFICATIONS

- Enthusiastic, inquisitive, responsible, organized, communicative and collaborative worker with adaptive logical learning skills
- 7+ years of experience in Python, C/C++, Java, SQL, Racket, HTML, CSS, Git, AODA, Android, MS, Turing, Arduino, Raptor, etc.

EDUCATION

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

University of Waterloo, Waterloo, ON

Sept.2017 – Apr.2022

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

Huawei Technologies Canada - Markham, ON | Big Data Platform Developer

Jan.2021 – Dec.2021

- Implemented features within the distributed data engine openLooKeng to achieve and maintain low latency and flexibility
- Integrated scalable concept models with dynamic features involving Heuristic Index, Memory Connector, Star Tree, etc.
- Enhanced SQL logical operation support and query optimization while documenting models, performance and use cases

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

Sept.2019 – Apr.2020

- Developed Java web-based applications and functionality automation while creating rigorous Mockito UTs to ensure quality
- Proposed and implemented various project-wide algorithmic enhancements to internal Java-based features and modules
- Constructed and managed new and existing technical features and process documentation as well as knowledge libraries

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

May.2018 – Dec.2018

- Exposure to Azure and AngularJS .NET application development as well as automation development using C and Selenium
- Proficiently constructed and executed automated and manual test plans and test cases to identify and debug software issues
- Exceeded expectations and achieved outstanding evaluations by taking responsibility to accomplish tasks in numerous teams

RELEVANT PROJECTS

WatDFS

Oct.2021 – Nov.2021

- Implemented a distributed file system with FUSE integration that supported file manipulation between remote servers

DIY Hub Platform HCI Project

Apr.2021 – Aug.2021

- Led a team to design and construct an interactive DIY Hub product relevant to various user groups and sociocultural needs

Bitcoin Market Prediction Tool

Apr.2021

- Generated predications through neural algorithms that considered historical prices and the sentiment of Reddit comments

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

Rubik's Cube Solver

Apr.2019

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

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

Jan.2019

- Designed an Android app that provides personnel status updates, escape routes and support in facility evacuation cases

Automated Task Manager

May.2018 – Jan.2019

- Created automation task manager with Selenium that executes compilations of pre-designed tasks and user commands

Sheet Music to MIDI Convertor

July.2017

- Developed programmable application that convert sheet music into digital formats to allow modifications and transpositions

Line Following Robot

May.2017

- Built a 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 included Sudoku Solver, AI TicTacToe, Chess, dice games, Blackjack, Tetris, Snake and various digital or board games

OTHER EXTRACURRICULAR ACTIVITIES & INTERESTS

- UW Senor Math Ambassador, UW Pink Tie Leader, StarterHacks 2019, CS tutor, teacher assistant
- Develop useful applications and utilities, my cats, Rubik's Cube, Yo-Yo, puzzles, piano, flute, complex Legos, magic tricks, cars