Daniel (Haoxuan) Zhang

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

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QUALIFICATIONS

- Enthusiastic, inquisitive, responsible and organized worker with adaptive 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, SQL, Racket, HTML, CSS, Git, Linux, AODA, Android, MS Office, 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.2020 – Dec.2021

- Participated in implementing openLooKeng low latency features within Heuristic Index, Memory Connector, Star Tree, etc.
- Took responsibility to develop scalable distributed application components, analyze performance and document integrations

Consultants for Government and Industries (CGI) - *Markham, ON* | ***Developer***   Sept.2019 – Apr.2020

- Developed Java web-based applications and functionality automation while ensuring quality with adaptive rigorous testing
- Proposed enhancements through constructing and managing technical process documentation and knowledge libraries

Ontario Ministry of Education - *Toronto, ON* | ***IT Quality Assurance Assistant***   May.2018 – Dec.2018

- Operated efficiently in numerous teams with SDLC, Waterfall and Agile knowledge throughout projects' development
- Proficiently constructed and executed automated and manual test plans and test cases to identify and debug software issues

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