

# Zi Cheng Huang

Computer Science Student - 2A



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## EXPERIENCE

### System Support Officer

Ontario Ministry of the Attorney General

05/2020 - 08/2020

Toronto, Ontario

- Provided personal and remote IT support using **OpenVNC** to government departments in the Office of the Public Guardian and Trustee.
- Monitored and changed government backup server tape differentials daily using **Windows RDP**, totaling over **500 TB** of data.
- Independently constructed a modernized office floor plan with **Microsoft Visio** and **VBA**.

### Executive

University of Waterloo Badminton Club

09/2019 - Present

Waterloo, Ontario

- Facilitated the operation of a **300** member club by arranging time slots for players in accordance to their level.
- Resolved court conflicts, as well as handled racquet rentals and member registration.
- Supervised in a variety of club tournaments to ensure its smooth operation.

### President of Physics Club

A.Y. Jackson Secondary

09/2018 - 06/2019

Toronto, Ontario

- Provided mentoring and personal tutoring regarding physics for students throughout the year.
- Organized several large scale events such as Open House, Food Fair, etc, reaching a **1000+** audience.
- Conducted interviews and adjudicated critical decisions regarding the leadership of the club.

## EDUCATION

### Bachelor of Computer Science - Candidate

University of Waterloo

09/2019 - 06/2024

1A & 1B - Term Dean's Honours List

## SKILLS

Java



Shell Scripting / Bash



HTML / CSS



Python



## YEARS

## PERSONAL PROJECTS

Minecraft Server Administration (05/2020 - Present)

- A robust server manager for the popular game Minecraft, accessed using **SSH**.
- Programmed utilizing **Bash** on the **Linux Terminal** with **Vim**, it has the ability to restart, backup, and restore the server.
- The backup feature manipulates the Minecraft save files and pushes it to a **Subversion** repository. It uses the **Linux Cron Daemon** to automatically backup the files at any preassigned time, replicating real world server snapshots.
- The repository auto-deletes outdated world files, saving over **3 TB** of space per month.

Personal Website (09/2019 - Present)

- Programmed with basic **HTML** and **CSS**, it hosts a growing number of personal projects.

Gomoku (10/2019 - Present)

- An abstract board game coded in **Java**. Using the mini-max algorithm with alpha-beta pruning, it reduces search times by cutting up to **96%** of unfavorable decision trees.
- The AI is able to plan up to 5 moves in advance, and can beat the expert difficulty on <http://gomoku.yjyao.com>, created by software engineer Yujian Yao.

Mastermind (05/2017 - 06/2017)

- A code-breaking game created in **Turing**, with its graphical component programmed using Turing's built-in API.
- Features an original algorithm to check for feedback on the guessed pattern with a fully functional GUI input.

## AWARDS & ACHIEVEMENTS

CEMC Euclid Math Contest (04/2019)

*Certificate of Distinction - Top 25th percentile*

Sir Issac Newton Physics Contest (2018 - 2019)

*Top 200 in the world*

CAP Physics Contest (2019)

*18th in Canada*

Waterloo Survival of the Fittest Badminton Tournament (11/2019)

*Mixed A Flight Winner*