Zhizhou **Chen**

✉ z539chen@edu.uwaterloo.ca
📞 (778) 855-8268
in linkedin.com/in/daniel-chen-0b248816b
github.com/dchen3121
🏠 dchen3121.github.io

Summary of Skills

Languages: Python, Java, C, Scheme, HTML, CSS
Tools/Frameworks: Android Studio, Bootstrap, Flask, Git, Microsoft Office, MongoDB
Others: Native fluency in English and Mandarin

Projects

RemindMe!   *Jan 2019 – Feb 2019*
Python, Flask, MongoDB, HTML
- A web app that allows users to register and keep track of their current topics of focus and create short notes and reminders on each topic.
- Allows the creation, editing, and deletion of notes and the registration and login of accounts
- Features a clean and **modern user interface**.
- Implemented **HTTP request methods** and **sessions** to allow users to interact with the database.

COptimism – A Virtual Chess Engine (Starterhacks 2019)   *Jan 2019*
Python, Pygame
- Built a virtual chess engine using Python.
- Made a proper **graphical user interface** using the Pygame module.
- Utilizes the **minimax algorithm** and a **self-written AI heuristic** to determine the best move on the board after a series of evaluations.
- Able to calculate low-depth situations at a reasonably high speed.

Conversions App   *Dec 2018*
Java, Android Studio
- Developed a **mobile app** using Android Studio that allows the calculation of conversions between common units.
- Supports five types of conversions, including clothing sizes, height, weight, temperature, and time.

Automatic Motion Sensor Lamp   *May 2018*
Raspberry Pi, Python, PIR sensors
- A motion sensor lamp built with Raspberry Pi and Python, using relay switches, PIR sensors, and GPIO.
- **Detects passive infrared waves** and remains on as long as new signals are sent once every 30 seconds.

Work and Volunteer Experience

Private Tutor   *May 2015 – June 2018*
- Tutored students ranging from grade 6-12 on elementary/high school level mathematics, sciences, and computer science languages.
- Reviewed school work and self-prepared study material, notes, and homework for students.
- Aided and prepared students for upcoming math/computer science contests.

Teaching Assistant – MPM Math School   *Dec 2014 – May 2016*
- Marked assignments, quizzes and tests
- Communicated effectively with children in grades K – 7.

Education

University of Waterloo   *Sept 2018 – Present*
- Candidate for **Bachelor of Computer Science** in the Faculty of Mathematics, currently in term 1B.
- Cumulative GPA of **3.98**, with an average of **97%** in computer science/math courses.

Hobbies and Interests

A Capella (member of the Water Boys) | Chess (former member of Team BC) | Travel | Mental Wellness