

William Wang

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SUMMARY OF QUALIFICATIONS

Programming Languages: C, C++, Python, Java, Javascript, Pascal, Scheme, R

Tools & Technologies: HTML & CSS, OpenCV, Video Editing, LaTeX, Android Studios, Git, Bash, RStudio

RELEVANT PROJECTS (Full list can be found on [Github](#))

ChanceMeMr.Goose

(Javascript, HTML and CSS)

- A website that uses applicant data posted by Waterloo's [Road to Engineering website](#) to compute one's probability of receiving an offer to the Faculty of Engineering according to the user's admission information.

Android Mobile Games Bot

(Python and Sikuli API)

- Utilized openCV with SikuliAPI in Python to [automate real-time gameplay](#) on an Android emulator. Successfully implemented prototype gameplay bots for the following mobile games: Pong, [Clash Royale](#), and [Injustice](#).

AccommodateMeMr.Goose

(Javascript, HTML and CSS)

- A website that assists first-year students in finding their ideal on-campus residence by ranking Waterloo residences in terms of their compatibility with the user's housing and amenity preferences.

PassNote

(Java with AWT and Swing toolkit)

- An offline password manager developed with practicality and user friendliness as a priority. Platform independence is featured to ensure user accessibility, along with a minimalistic and intuitive user interface.

EXPERIENCE

Website Director

Sep 2020 - Nov 2020

Post-COVID Youth

- Championed the layout, implementation, and maintenance of the organization's digital content on the website.
- Partnered with an executive team of over 20 members to design, prototype, build, and launch the website.
- Cultivated the functionality and strategy of the website while investigating and addressing all website issues.

Executive Theme Director

May 2019 - Sep 2019

Camp Tamarack

- Spearheaded the planning and execution of 12 Avengers-themed activities that fostered team-building and unity.
- Administered the supervision and care for 150+ campers at a 96-hour orientation trip to welcome freshmen.
- Mentored a team of 23 camp counselors to ensure the constant safety and active engagement of all campers.

Sound Technician and Executive DJ

Sep 2018 - Mar 2020

Victoria Park Collegiate Institute

- Coordinated with 5 professional AV technicians to manage music and sound configurations for FRC competitions.
- Oversaw the operations of the soundboard, lighting console, and stage lights for over 15 school-organized events.
- Collaborated with 90+ performers and organizers to resolve technical difficulties under time-sensitive situations.

EDUCATION

Bachelor of Computer Science, Honours Co-op

Sep 2020 - May 2025

University of Waterloo

- Cumulative GPA: 93.1%. Activities: UW Tech+ Mentorship, Zero Experience Problem Lab, Spotlight Mentorship.

AWARDS & DISTINCTIONS

- Kenneth Yip STEM Scholarship Recipient (out of 300+ graduates) Jun 2020
- 1st Place Team at [NHBC Toronto Ivey Case Competition](#) (out of 100+ competitors) Aug 2018

INTERESTS & HOBBIES

- Hamilton the Musical, restoration of electronics, speculative stock trading, curling, biking, and a map enthusiast.
- Founding member and moderator of an online stock and business community with over 280,000 active members.