

# William Wang

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## SUMMARY OF QUALIFICATIONS

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**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](#))

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### [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

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### 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

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### 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

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- 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

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- 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.