

Renkui (Gary) Ye

University of Waterloo
Electrical Engineering

raygye.ga 

github.com/raygye 

linkedin.com/in/raygye 

gary.ye@uwaterloo.ca 

Technical Skills

- Languages: Java, C++, Javascript, Python, HTML, CSS
- Technologies: JavaFX, jQuery, Git, XML, JetBrains

Projects

ttc.raygye.ga

TTC Predictions

- Constructed a bus predictor web app using **Javascript**, **Google Maps API**, **Nextbus API**, presenting estimated times of arrival (ETAs) and vehicle locations in a single webpage
- Featured **live ETAs** and an interactive map that displayed **live bus routes and locations**

MightyMouse

- Designed a program that implements **recursive depth-first-search** and **visualizes** the process to the user using the analogy of a mouse search for cheese.
- Wrote algorithm in **Java** and displayed it through **JavaFX**

Hush

- Developed an application that **encrypts all text-based files** or **strings** using **one-time-pad** encryption along with an interactive user-interface
- Created algorithm with **bit manipulation** and **dynamic memory** allocation
- UI created using **Java** and **JavaFX/JXML** allows for easy-to-use platform for both encryption and decryption

Education

University of Waterloo

- Electrical Engineering 2024
- Relevant courses: ECE150 (Programming in C++), ENGL192 (Communications Course)

Work Experience

Pro Line Pool & Spa Services

Toronto, ON

Lifeguard

June 2018 - July 2019

- Only supervisor of around 25 patrons, handling public relations and ensuring a compliant and hazard-free environment
- Performed necessary maintenance such as vacuuming and filter/pump maintenance

Interests

- Blockchain technology (market growth and implementations beyond cryptocurrency)
- Mechanical keyboards
- Badminton (OFSAA/Provincial medalist and high school captain)