Gary Ye

Seeking Summer 2022 Internship

linkedin.com/in/raygye   gary.ye@uwaterloo.ca

###-###-####   github.com/raygye

Technical Skills

- **Languages:** Python, JavaScript, Java, C++, C, TypeScript, SQL, PHP, Bash
- **Technologies:** Git, Node.js, Express, Docker, Electron, React, MongoDB, Salesforce

Education

University of Waterloo   September 2019 - April 2024

- Bachelor's of Computer Engineering (3.80 GPA)

Work Experience

Arcturus Networks - Full-Stack Developer   September 2021 - Present - Toronto, ON

- Rearchitecting a system manager from a **Python** app into a next generation multi-platform **dockerized Electron app** that supports concurrent configuration and firmware management of many endpoints across an **IoT** site, running on a **Node.js backend**

Newtopia - Full-Stack Developer   January 2021 - April 2021 - Toronto, ON

- Developed both web and mobile **React** platforms for a healthy living and disease prevention service with a user-base of over 10000
- Improved the security of high traffic public **Java** APIs by providing **JWT** support
- Aggregated thousands of client and coach data using high frequency **SQL** queries
- Performed a complete refactor to **TypeScript**, improving performance of the mobile app by 30%

Waterloop - Communications Developer   November 2020 - May 2021 - Waterloo, ON

- Constructed website backend for remote microcontroller development using WebSockets
- Features include remote file flashing, I/O streaming, live video, and CAN bus communication support
- Created a program manager for microcontrollers and support for serial console in **Node.js**

ULAAP Inc. - Full-Stack Developer   May 2020 - August 2020 - Toronto, ON

- Created a management portal for a transportation and logistics company
- Leveraged a **PostgreSQL** database to implement product and contact upload, and search/autocomplete API, reducing work order creation time by 20%
- Independently completed projects including Google Maps API integrations, digital signature capture, PDF generation automation

Projects

Duel! RPS   http://rps.raygye.ga

- Engineered a multi-user website featuring user profiles and dynamically routed game rooms that would allow users to play rock-paper-scissors with integrity online, built with **MongoDB, Express, React, Node.js, and Socket.io**

TTC Predictions   http://ttc.raygye.ga

- Constructed a **JavaScript** bus predictor web app presenting **live, periodically updated** estimated times of arrival (ETAs) and vehicle locations across the Greater Toronto Area, serving **over 1300 prediction requests**