

Youngwoo Lee

647-920-2979 | y288lee@uwaterloo.ca | linkedin.com/youngwoo-lee | github.com/youngwoo206

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, SQL, Java, C#, Bash, HTML, CSS, Gherkin, VBA

Technologies: React, MySQL, Vue.js, AWS, Flask, Node.js, Redux, MongoDB, Pandas, Firebase, Cypress, Git

EXPERIENCE

QA Developer May. 2023 - Present
Skylight Financial Services Toronto, ON

- Developing automated end-to-end regression tests for use in CI/CD pipeline using **Cypress**, **TypeScript** and **Gherkin** to address potential bugs and security vulnerabilities
- Optimized existing automated tests by implementing Cypress features like hooks and aliases, reducing test duration by an average of 4 to 5 seconds

Full Stack Developer Feb. 2023 - May. 2023
KnockNow Vancouver, BC

- Lead development of major app functionalities like a property details page using **React** and **Material UI**, implementing features like Google Map view using Google Maps API
- Developed REST API endpoints in **Flask** for MySQL database communication used in report generation
- Wrote a **Python** script to identify mismatches between **Flask** models and **MySQL** database, detecting and updating over 130 discrepancies
- Developed a data pipeline using **Pandas** to extract and merge over 100,000 real estate property records to a **MySQL** database while conducting checks to ensure data accuracy and validity

Software Developer Sep. 2022 - Dec. 2022
Dream Suites Toronto, ON

- Utilized **Vue.js** and **WordPress** to develop a robust and user-friendly website for Dream Suites boutique hotel
- Enabled users to book directly from the main website by integrating the Hostaway **REST API** into a custom Vue.js widget, resulting in a 10% increase in booking volume
- Developed and integrated Vue.js components to enhance mobile responsiveness versus pre-existing templates

Automation Engineering Intern Sep. 2021 - Dec. 2021
Nissan Canada Toronto, ON

- Streamlined vehicle allocation tasks by developing VBA macros to automate vehicle allocation tasks, reducing working hours spent on tasks by an average of 45 min while significantly reducing chance of human error
- Used **Python** PyXll library to automate Excel report generation, eliminating an hour long bi-weekly task

Network Engineering Intern Jun 2020 - Aug. 2020
Rogers Communications Brampton, ON

- Lead the development of a MS Access database to store data for over 2000 network towers, developing **SQL** queries to handle filtering, searching, and editing of data to reduce user input error and improve ease of data access

PROJECTS

IGem Software Team Lead Jul. 2022 - Nov. 2022

- Lead small team of developers to build an award-winning Wiki website using **React**, **Bootstrap**, and **Sass** with key features like text-to-speech, dark mode, font size adjustment, and search bar to present IGem Waterloo research findings at an international competition
- Won **gold** at international IGem competition in Paris, France with full marks on website accessibility and features

TypeTrainer Typing Game Oct. 2022 - Dec. 2022

- Developed full stack typing game using **React** and **Redux**, allowing users to test and improve their typing speed
- Implemented **Firebase** backend platform, leveraging SDK authentication and NoSQL database features to track major user metrics like average typing speed, high scores, and more

EDUCATION

University of Waterloo Apr. 2025 (Expected)
Bachelor of Engineering

- **Relevant Courses:** Data Structures and Algorithms, Numerical Methods for Process Analysis