

Youngwoo Lee

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

TECHNICAL SKILLS

Languages: TypeScript, Python, JavaScript, Java, SQL, C#, C/C++, HTML, CSS, Bash

Libraries: React, Next.js, React Native, Flask, Vue.js, Tailwind, Material UI, Redux, .NET, Cypress

Technologies: MySQL, AWS, Node.js, MongoDB, PostgreSQL, Redis, GCP, Github Actions

Certifications: AWS Cloud Practitioner, Scrimba Advanced React

EXPERIENCE

Software Engineering Intern

Aug. 2023 - Dec. 2023

Junior AI

Toronto, ON

- Developed portal web app using **React**, **Flask**, **PostgreSQL** to accompany AI software used by top law firms
- Configured **AWS EC2** instance to train large language model, reducing duration by 75% over previous method
- Developed **Flask REST API** endpoints to generate and update JWT tokens for user login authentication
- Built out legal snippets front-end feature using **React** and **Material UI** for saving and reusing legal phrases
- Implemented monthly digest feature by developing Python emailer endpoint run by **AWS Lambda** function, delivering a custom HTML email template to over 2000 beta users

QA Developer

May. 2023 - Aug. 2023

Baselane

Toronto, ON

- Developed end-to-end tests using **TypeScript** and **Cypress** to catch regression bugs and preserve user experience
- Refactored existing tests to reduce total testing duration by 40% by implementing Cypress hooks and aliases
- Added E2E tests to CI/CD pipeline with **Github Actions**, catching 30+ bugs before reaching production
- Restructured manual testing process by integrating **Jira Xray** test framework to define test plans and executions

Full Stack Developer

Feb. 2023 - May. 2023

KnockNow

Vancouver, BC

- Identified over 130 discrepancies between **Flask** models and **MySQL** database using adhoc **Python** script
- Spearheaded major revamp of property details page using **React**, **Redux** and **Material UI** to introduce new features like a Google Maps view and downloadable property reports
- Leveraged **Google Maps API** to add Maps view to details page with filters showing similar nearby listings
- Developed API endpoints in **Flask** to facilitate CSV and PDF report generation for real estate listings
- Constructed data pipeline with **Pandas** to validate and merge over 100,000 property records to **MySQL** database

Web Developer

Sep. 2022 - Dec. 2022

Dream Legacy Foundation

Toronto, ON

- Added direct booking feature to Dream Suites website by integrating Hostaway **REST API**, allowing users to book directly from the website and contributing to a 10% increase in booking volume
- Redesigned and developed Dream Suites landing page using **Vue.js** and **Figma** as part of company rebrand

PROJECTS

PulsePoint Social Media Platform

Jun. 2023 - Jul. 2023

- Created Reddit-like web app using **React**, **Next.js**, **Tailwind** and **Prisma** for academic discussion (link)
- Implemented OAuth 2.0 authentication using **GCP**, allowing users to create an account using their Google email
- Established **Prisma** models and schema to facilitate creation/deletion of subreddits, posts, and nested comments
- Implemented client-side caching using **Redis** and infinite scroll data fetching to drastically reduce loading times

IGem Software Team Lead

Jul. 2022 - Nov. 2022

- Led a team of developers to build a **React** website, winning **gold** at the IGen competition in Paris, France
- Won full points in website features and accessibility category by using **Redux** state management to implement text-to-speech, light/dark mode, and font size adjustment

EDUCATION

University of Waterloo

Apr. 2025 (Expected)

Bachelor of Chemical Engineering

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