

# Youngwoo Lee

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## TECHNICAL SKILLS

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**Languages:** TypeScript, Python, JavaScript, Java, SQL, C, C++, HTML & CSS, Bash

**Libraries:** React, Next.js, React Native, Flask, Astro.js, Tailwind, Redux, Spring Boot, Cypress

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

**Certifications:** AWS Cloud Practitioner, Scrimba Advanced React

## EDUCATION

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### University of Waterloo

Apr. 2025 (Expected)

*Bachelor of Chemical Engineering*

*President's Scholarship of Distinction*

- **Relevant Courses:** Data Structures and Algorithms, Numerical Methods for Data Analysis
- **Leadership:** IGen Team Software Lead - **gold** medal placement at international competition in Paris, France

## EXPERIENCE

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### Web Developer

Jun. 2024 - Present

*Ada*

*Toronto, ON*

- Led comprehensive rework of blog with **1000+** monthly users using **Astro.js**, **Tailwind CSS**, and **Sanity CMS**
- Developed a dynamically-generated table of contents for blogs with **Alpine.js** and **Intersection Observer API**
- Engineered a flexible **React** search bar component able to accept different data formats for multiple use cases
- Devised a performant fuzzy match algorithm for the search bar component to achieve an intuitive user experience

### Software Engineering Intern

Aug. 2023 - Dec. 2023

*Junior AI*

*Toronto, ON*

- Developed web-app interface using **React**, **Flask**, **PostgreSQL** to accompany legal AI software tool used by *Stikeman Elliott LLP* and other top Canadian law firms
- Reduced training time of **Rasa AI** framework by **75%** by migrating to **AWS EC2** compute solution
- Developed **Flask** REST API endpoints to generate and update JWT tokens for user login authentication
- Engineered monthly digest newsletter feature for **2000+** beta users by developing a Python emailer endpoint
- Configured **AWS EventBridge** API destination run on CRON job to trigger newsletter email endpoint

### QA Developer

May. 2023 - Aug. 2023

*Baselane*

*Toronto, ON*

- Developed end-to-end tests using **TypeScript** and **Cypress** to catch regression bugs and uphold user experience
- Shortened total testing duration by **40%** by refactoring existing tests with Cypress hooks and aliases
- Implemented E2E testing jobs with **Github Actions** to catch numerous bugs during development

### 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 comprehensive overhaul of property details page using **React**, **Redux** and **Material UI**
- Leveraged **Google Maps API** to add Maps view to details page with filters showing similar nearby listings
- Developed API endpoints in **Flask** to facilitate generation of downloadable real estate PDF reports for end user
- Constructed data pipeline with **Pandas** to validate and merge **100,000+** property records to **MySQL** database

## PROJECTS

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### 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 team of developers to build a **React** wiki site, winning full points in website features/accessibility category
- Built key accessibility features using **Redux** like text-to-speech, light/dark mode, font size adjustment, and more