

# Leon Li

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## SKILLS

**Languages:** Python, C++, JavaScript, TypeScript, Java, Kotlin, Scala, SQL, HTML/CSS

**Technologies:** React, Spring, Node.js, MongoDB, PostgreSQL, Angular, Flask, Docker, Git, Android SDK

## EDUCATION

**University of Waterloo** – Honours Bachelor of Computer Science (Co-op) Sep 2018 - Apr 2023

- Term GPA: 92%, Dean's Honours List (Spring 2020), Cumulative GPA: 85%
- Related Courses: Data Structures and Algorithms, Operating Systems, Computer Networks, Concurrency

## EXPERIENCE

**TD Bank** | *Software Engineer Intern – Global Transfer Team* | Toronto, ON Jan 2022 - Apr 2022

- Led the development of a real-time payments (RTR) application that facilitates reporting and auditing e-transfers between TD and other financial institutions. Developed using **Spring Boot**, **Angular**, and **MongoDB**.
- Reduced the amount of time needed to generate a Settlement Summary report from a 3-day request process to an on-demand search for over 100 Enterprise Payments Business Operation agents.
- Worked cross-functionally with the Enterprise Payments team to gather stakeholder requirements for the project.

**Infor (Workforce Management)** | *Software Developer – Platform Team* | Toronto, ON May 2021 - Aug 2021

- Designed and implemented Histories feature for WFM Extension Scripts, enabling versioning and rollbacks used by 200+ enterprise clients. Developed using **Java**, **Spring**, **JavaScript**, **SQL**, **Cucumber**, and **JUnit**.
- Upgraded database migration tool to use a trigger-based approach instead of a query-based approach, accelerating development by ~30% across all database changes (**PostgreSQL**, **Oracle**, **DB2**, and **SQLServer**).
- Developed infrastructure for documentation of **Kotlin**, achieving full coverage of WFM codebase, using **Gradle**, **Ant**, **Maven**, and **Dokka**.


**University of Waterloo** | *Teaching Assistant* | Waterloo, ON Sep 2020 - Dec 2020

- Led instructional support for Advanced Introduction to Compilers course for 100+ students, using **Scala**.
- Engineered a suite of **Bash** scripts to automate administrative tasks such as running plagiarism detection software, updating marks, and archiving documents, reducing instructional workload by roughly 70%.
- Held daily office hours for students, helping to debug approximately 10,000 lines of code across the term.


**Manulife** | *Digital Analytics Engineer* | Toronto, ON Jan 2020 - Apr 2020

- Developed custom dashboards for Global Digital Marketing team using **Google Analytics** and **Adobe Analytics**.

## PROJECTS

**Urban Lyrics** | *TypeScript, Express, React, Node.js* 

- Built a Chrome extension to retrieve song lyrics for YouTube music videos; currently with 250+ daily active users across six continents. Created with **TypeScript**, **Webpack**, and **Node.js**.
- Deployed a REST API that scrapes lyrics on-demand from Genius, using **Express.js** and **Puppeteer**.
- Designed and created an easy-to-use UI to request and display lyrics using **Figma** and **React**.

**Flexlog** | *Express, React, MongoDB, Node.js* 

- Engineered a multi-page web application for users to easily log and share their workouts. Used **React**, **Next.js**, and **Styled Components** for the user interface.
- Leveraged JSON Web Tokens for authentication and authorization, using **bcrypt** and **MongoDB**.

**Gesture Recognizer** | *Java, Android Studio, Gradle* 

- Built an app that recognizes a touch gesture and matches it against a collection of previously inputted patterns (e.g. star, circle, mountain, etc.). Created in **Java** with **Android SDK**.