

Leon Li

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SKILLS

Languages: JavaScript | Java | C++ | Python | Scala | SQL | HTML/CSS

Technologies: React | Express | Node.js | Next.js | MongoDB | Jest | Postman | Git | Bash | Figma

EDUCATION

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

- CS 246 - Object-Oriented Programming in C++ (99% final project)

PROJECTS

Flexlog | Express, React, MongoDB, Node.js [🔗](#) Dec 2020 - Present

- Designed and developed a web application for users to easily log and share their workouts
- Implemented authentication and authorization using **JWTs** for a secure and more efficient user experience
- Developed several **Express REST API** endpoints to store, modify and delete workouts in **MongoDB** database
- Built a multi-page **React** frontend using styled-components library and **Next.js** framework

Urban Lyrics | TypeScript, Express, React, Node.js [🔗](#) Oct 2020

- Built a Chrome extension using **TypeScript** to retrieve song lyrics for Youtube music videos; the extension is actively being used by 50+ people across four different continents daily
- Implemented an **Express REST API** to scrape lyrics from Genius using Puppeteer's Headless Chrome API
- Designed and created an easy-to-use UI to request and display lyrics using **Figma** and **React**

Data Rush | C++, X11 [🔗](#) Dec 2019

- Developed a modern spinoff of the board game Stratego in **C++** which supports both a text-only and GUI version
- Utilized object-oriented design principles and design patterns, including MVC and Observer

EXPERIENCE

University of Waterloo | Instructional Support Assistant (ISA) | Waterloo, ON Sep 2020 - Dec 2020

- Reduced ISA workload by **70%** by writing **Bash** scripts to automate all administrative tasks such as running plagiarism detection software, updating marks and archiving
- Led instructional support in **Scala** for 100+ students taking the advanced-level Introduction to Compilers course
- Debugged **10000+** lines of code during daily tutorials and office hours sessions for students

Manulife Financial | Digital Analytics Coordinator | Toronto, ON Jan 2020 - Apr 2020

- Researched and presented key metrics and ongoing analytics initiatives at monthly optimization meetings
- Developed custom dashboards for Global Digital Marketing teams using **Google Analytics** and **Adobe Analytics**
- Improved user engagement and experience by implementing various UI components for Manulife's homepage in **JavaScript** and **HTML/CSS**

University of Waterloo | Research Assistant | Waterloo, ON Jun 2019 - Aug 2019

- Collected data for a research study on C-suite compensation packages, contributing 2500+ data samples

ACHIEVEMENTS

- **Hack The North Competitor:** Designed *Camhunt*, a virtual manhunt app Sep 2019
- **THacks2 Hackathon Award Winner:** Created *Thrift'eh*, an online thrift store Oct 2017
- **SHAD Alumnus:** Competitive STEM enrichment program at University of Waterloo Jul 2017