

# Lichen Ma

✉ l67ma@edu.uwaterloo.ca • in linkedin.com/in/lichen-ma • github.com/lichenma

## Skills

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**Technologies** / Spring, NodeJS, Express, AngularJS, React, Android Studio, Git

**Languages** / Java, JavaScript (ES6), C, C++, Python, SQL, Kotlin, HTML5, CSS3

## Experience

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**Incoming Back-End Developer** *Intersect*

*Sept - Dec 2019*

*Toronto, ON*

**Full-Stack Developer** *HubHead*

*Jan - Apr 2019*

*Java, Spring, AngularJS, PostgreSQL, Groovy, Git, MVEL*

*Markham, ON*

- Developed the fullstack implementation for a duplicate workflow detection service for a cloud based multi-user application using **Spring**, **AngularJS**, and **PostgreSQL**
- Added client-side and server-side data validations for an Asset Management web service using **MVEL** and **SQL**, complying with enterprise-level data standards
- Designed a SQL optimization job using Obsidian Job Scheduler, periodically removing unused database entries and **reducing process list load times by 20%**

**Wireless LAN Engineer** *Extreme Networks*

*Apr - Aug 2018*

*JavaScript, Postman, Newman, Bash, SwaggerIO*

*Markham, ON*

- Automated REST API regression testing by creating Postman workflows to generate requests and JavaScript Assertions to perform validations, **shortening the verification process by 60%**
- Managed the verification process for all user profile API endpoints using **Testlink**, meeting Corporate-level API standards

**DevOps Engineer** *Toronto Water*

*Sept - Dec 2017*

*Python, NumPy, pandas, Microsoft SQL Server*

*Toronto, ON*

- Automated the generation of Asset data analytics using **Python** for data preprocessing and analysis, **shortening the asset report generation process by 80%**
- Collaborated with the native application team to present a desktop virtualization system, successfully transitioning all Toronto-wide plants to the new system technology

**DevOps Engineer** *Toronto Water*

*Jan - Apr 2017*

*TCP/IP, Routing/Switching, Cisco CLI*

*Toronto, ON*

- Architected a network design including **IP addressing** and **security architecture** to provide network access to Power Distribution Units located in the company's datacenter

## Projects

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**Javalon - Spring Web Service Board Game**

*Java, Spring, AngularJS, H2, Websockets*

- Developed a real-time web service interpretation of the card-based board game "The Resistance: Avalon"
- Designed the fullstack application implementation featuring user authentication, game-rooms, and real-time game synchronization across devices using **WebSockets**, **Spring**, **AngularJS**, and **H2**

## Education

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**Candidate for Bachelor of Applied Science in Computer Engineering**

*2016 - 2021*

*University of Waterloo*

*Third Year*