

# Lincoln Lo

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## SKILLS

### LANGUAGES

Java  
JavaScript(ES6)  
PHP  
HTML5  
CSS  
C++  
C#  
Bash

### TOOLS & TECHNOLOGIES

Node.js  
Maven  
Amazon Web Services  
MySQL  
Android SDK  
Git

UNIX/Linux  
Bootstrap4.0

### FRAMEWORKS

Spring Boot  
Express.js  
DataFire

## EDUCATION

### UNIVERSITY OF WATERLOO

BA.Sc COMPUTER ENGINEERING

SEPTEMBER 2017 - APRIL 2022

## INTERESTS &

## ACHIEVEMENTS

### RUNNING

Finished a total of 31 races  
Completed the Vancouver Marathon  
6 Half Marathons  
18 Trail Races

4 Obstacle Courses  
3 Snowshoe Races  
First Place at 7 races

### SKIING/SNOWBOARDING

First Aid Ski Patrol at  
Grouse Mountain

### POWER LIFTING

Trainer at the local gym

### HACKATHONS

Finalist at the Toronto -  
Police Hackathon  
Participant at HackValley 2

## EXPERIENCE

### FASTAPPS | SOFTWARE DEVELOPER

MAY 2018 - SEPTEMBER 2018 | TORONTO

- Designed, documented, and built a scalable data-integration system to aggregate business data from **800+** services with **Node.js**
- Developed an automated system for scheduling Web API calls and refreshing OAuth2.0 tokens with **cron** to secure user authorization for **13+ Web APIs**
- Implemented a solution for preventing data duplication and tracking of time last-synced using file-system and **MySQL** queries
- Created a logging system with Winston.js to track warnings/errors and tasks
- Designed, documented, and created a **RESTful API** for a chatbot to query company information with **Java Spring Boot**
- Utilized **AWS Comprehend** to analyze user input and created a custom mapping of entities to query a MySQL database
- Deployed and maintained an **Ubuntu** Express server with PM2, **Apache Tomcat**, and MySQL on AWS EC2 and RDS

## PROJECTS

### WEATHER RUN | IS IT A GOOD DAY FOR A RUN?

- Created an **Android app** that displays the current weather information of any given city using OpenWeatherMap's API
- Optimized performance by using **AsyncTasks** to perform HTTP requests on multiple threads
- Employed the passive **MVC pattern** and focused on applying critical object-oriented design principles

### PERSONAL WEBSITE | LEARN MORE ABOUT ME!

- Developed a responsive website hosted on AWS using **Bootstrap4.0** **CSS** and **jQuery**
- Built an interactive chatbot with **AWS Lex** and used **AWS lambda** with **Node.js** for user input validation
- Created a contact form with **PHP**, email validation in **jQuery**, and used **SMTP** with **AWS SES** for email service

### OPEN SOURCE CONTRIBUTION | DATAFIRE FRAMEWORK

- Contributed integration for HubSpot for authorization with OAuth 2.0, Companies API and Contact API

### FIND FOOD | HUNGRY?

- Developed an dynamic website with Google Maps API for end users to locate nearby restaurants, cafés or bakeries
- Implemented functionality to add and remove markers using **jQuery** for nearby places of interests

### PRESSURE LOCK | UNLOCK BY KNOCK!

- Designed an algorithm in **C++** to track and save multiple user input patterns with a pressure sensor, keypad and **Omega Onion2**
- Created an algorithm to calculate the error amount between the saved pattern and inputted pattern

### TRANSPORT AUTHENTICATION | FACIAL RECOGNITION

- Created an Android app that uploads images to **Firestore Storage**
- Implemented a facial recognition program that identifies users from an image set in **C#** with **Microsoft Azure**'s facial recognition API