

# Peter He

SOFTWARE ENGINEER

☎ (+1) 647-907-0087 | ✉ peter.he97@gmail.com | 📱 petarhe97

## Skills Summary

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- Languages: Java, Go, Ruby, Python, C++, Javascript, SQL and Kotlin
- Technologies: AWS, Apache Kafka, Kubernetes, NodeJs, Spring, Datadog, and PostgreSQL

## Work Experience

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### Lifion By ADP

*New York, New York*

SOFTWARE ENGINEERING INTERN

*May 2019 - Dec. 2019*

- Designed and implemented new events pipeline in Go which consumes CRUD events, persists to S3 and reduces number of requests to Elasticsearch by 40%.
- Deployed new microservices to Kubernetes cluster which communicate through SQS messaging to allow orchestration events to be ingested into new pipeline.
- Refactored common Go modules across multiple repositories into single module, halving the size of most repositories and fixing discrepancies across services.
- Built performance testing module which provides instrumentation tools of our data-related API.
- Investigated stale Node.js codebase, producing report on required bug fixes and improvements.

### TribalScale

*Toronto, Ontario*

AGILE SOFTWARE DEVELOPER

*Sept. 2018 - Dec. 2018*

- Implemented login flow, booking and managing of tickets, and check-in validation for The Carnival Cruise Hubapp, which received a rating of 4.6/5 with 58 thousand reviews.
- Built RESTful APIs using Java and Spring to provide information on developers' skills within an organization, which is used to allocate employees onto projects.
- Developed an Android application in Kotlin which presents employee data with features such as Google Single Sign-On, filtered search, and dark mode.

### Flipp Corp.

*Toronto, Ontario*

SOFTWARE DEVELOPER - FLYER ADMIN TEAM

*Jan. 2018 - Apr. 2018*

- Worked with Mapbox API and urbanity status to determine what flyers each user should receive, fixing about 50% of incorrectly received flyers.
- Designed and built a payroll system with Ruby and MySQL for outsourced companies that track completed user tasks and prevent money loss from incorrect task numbers.

### Flipp Corp.

*Toronto, Ontario*

BACK-END DEVELOPER - TOSS TEAM

*May. 2017 - Aug. 2017*

- Created and maintained over 50 parsers and web scrapers responsible for providing 70% of flyer content using Ruby on Rails and Nokogiri gem.
- Implemented "Add To Cart" feature for the E-Commerce team, which carts items on the retailer's website while using the Flipp app.

## Projects

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### Real Time Train Simulator

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TRAIN CONTROLLER

*August 2018*

- Developed a micro-kernel, real time operating system and train operating program using an ARM computer and track sensor signals to coordinate multiple trains.

## Education

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### University of Waterloo

*Waterloo, Ontario*

BACHELOR OF COMPUTER SCIENCE

*Sep. 2015 - Jun. 2020*

- Completed courses such as Advanced Algorithm Design, Artificial Intelligence, Computer Networks, Concurrent and Parallel Programming, Distributed Systems, Real Time Programming and Security.