

# Keary Chang

## Back end developer

Experience developing high performance networked applications to communicate between APIs in network and IoT applications. Proven ability in optimizing build processes through code refactoring and build automation tools. Skilled with communicating technical ideas through live coding or class diagrams.

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## WORK EXPERIENCE

### Java Software Developer

TierOne OSS Technologies Inc.

09/2019 - Present

Mississauga, Canada

*TierOne specializes in software and solutions for network service providers*

*Achievements/Tasks*

- Created concurrent application for performant and periodic retrieval of 500+ network performance metrics for analysis
- Added data visualization of metrics and status of 100+ network alarms
- Improved front end UI of web app for report generation

### Software Developer Intern

TierOne OSS Technologies Inc.

09/2019 - 09/2020

Mississauga, Canada

*Achievements/Tasks*

- Created networked applications to retrieve network data and map various data models for upload to internal web app
- Major build process and refactoring for improved build times and code maintainability
- Wrote technical documentations for configuring and running internal programs

## PROJECTS

### Automatic Database Normalizer

- Built website that automates database normalization by finding redundancies and returns better schema
- Created front end that prompts user for database schema and parses it

### Adaptive Congestion Control for Internet of Things Protocol

- Worked in team to implement variable round trip time for packets sent over IoT protocol
- Improved network performance by 50%-90% in congested networks

## TECHNOLOGY

### Front End

*Sass, jQuery, Bootstrap, Semantic*

### Back End

*Node.js, Express, Heroku, React, MySQL, PostgreSQL*

### Other

*Maven, JUnit, Eclipse IDE, Visual Studio Code, JIRA, Powershell Scripting*

## PROGRAMMING LANGUAGES

Java

JavaScript

Python

HTML/CSS

C

C++

## EDUCATION

### BSc Computer Science

Ryerson University

09/2015 - 12/2018

### BSc Biological Chemistry

University of Toronto