

# MICHAEL CHI

---

3A Computer Engineering | dychi@edu.uwaterloo.ca | michael-chi.herokuapp.com

## Skills

---

- **Languages:** JavaScript, Scala, C#, Java, C++, HTML/CSS
- **Databases:** PostgreSQL, MySQL, Microsoft SQL Server
- **Libraries/Frameworks:** AngularJS, React, Express.js, ASP.NET
- **Tools:** Ubuntu, Git, Redis, AWS, Vagrant, PrestoDB

## Work Experience

---

### Software Developer Sortable

01/2018 to 04/2018  
Kitchener, ON

- Developed and shipped new features for Sortable Analytics using Scala and AngularJS under Linux environment
- Created a system to automatically generate, format and email reports to clients based on scheduling configuration
- Improved Hive querying performance by modifying the internal script to query date partitioned tables
- Assisted with the upgrade of PrestoDB, which optimized concurrent data querying performance by 25% with reduced failure rate
- Assisted full-time developer to reduce AWS cost by migrating databases from RDS to EC2

### Core Software Developer IBM Canada Ltd.

05/2017 to 08/2017  
Toronto, ON

- Responsible for developing ICM web application API using Node.js, and maintaining internal management tool using React
- Implemented SSO feature and an IP White-list System for ICM
- Created unit tests and improved API code coverage by more than 15%

### Technical Analyst Scotiabank GBM

09/2016 to 12/2016  
Toronto, ON

- Optimized the rendering performance of existing web applications by more than 50%
- Designed and created a flexible web application to convert Excel to database tables using ASP.NET
- Documented application structure and algorithms to ease future development

### Application Analyst Toronto Transit Commission

01/2016 to 04/2016  
Toronto, ON

- Responsible for gathering requirements directly from users, and maintaining web applications using ASP.NET
- Designed and developed a reporting tool for internal employees, allowing users to search and sort by criteria
- Created stored procedures and triggers in Microsoft SQL Server to optimize application performance

## Technical Projects

---

### Currency Converter App (EngHack 2016)

- With a group of three, created a real-time currency converter app using Java and currencyLayer API
- Responsible for implementing conversion algorithm and unit tests
- Currently recreating the app using React and Express.js