# Michael Chi

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## Qualifications

Languages: JavaScript, Scala, C#, Java, C/C++, HTML/CSS

Frameworks: Node, AngularJS, React, Express, jQuery, ASP.NET

Databases: PostgreSQL, MySQL, Redis, Microsoft SQL Server

**Tools:** Linux, Git, AWS (RDS, EC2, S3), Vagrant, Jira, Visual Studio

Coursework: Compilers, Operating Systems, Algorithms & Data Structures, Digital Computers

## **Work Experience**

### Sortable | Software Developer | Kitchener, ON

Jan. - Apr. 2018

- Developed auto-logging features and report parser for the new reporting platform, used by all internal staff and beta customers. Leveraged S3 to improve storage persistency.
- Implemented report scheduling system with Scala and AngularJS that applies CRUD operations to PostgreSQL, and reducing manual tasks by 2hrs/day
- Built custom domain specific language with JavaScript to encapsulate SQL queries, reducing error rates and querying time by 10%
- Migrated 100k-row databases from RDS to EC2 instances with the pgloader library

#### IBM | Core Software Developer | Toronto, ON

May - Aug. 2017

- Implemented RESTful API with Node to control Single Sign On configurations and authentication, leveraged Redis to cache certificates, and created UI with React
- Designed and built a Node/React-based IP Whitelist System, working with Secure FTP server, CRUD operations, and calling API endpoints
- Wrote 50+ Node/Mocha unit tests to validate API endpoints and CRUD operations against PostgreSQL database, increasing code coverage by 23%

### Scotiabank | Technical Analyst | Toronto, ON

Sept. - Dec. 2016

- Optimized querying algorithm by 50% and created stored procs and triggers in SQL Server
- Built web application with C#/JavaScript/Bootstrap to migrate Excel spreadsheets to SQL Server tables
- Implemented AJAX, bulk search, and paginations to web application used by investment bankers

## **Projects**

#### **Currency Converter** | UWaterloo Engineering hackathon

- Developed real-time currency converter app with Java and the currencyLayer API
- Implemented currency conversion algorithms and wrote unit tests

### Personal Portfolio | michaelchi.me

- Designed and built personal portfolio with CSS flexbox, Materialize CSS, and Node/Express
- Implemented email functionality with Nodemailer and OAuth2