

# Michael Chi

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michaelchi.me  
github.com/michaelchi1997

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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