

# JOHNSON ZHONG

PROGRAMMER, DESIGNER, COMPUTER SCIENCE ENTHUSIAST

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## SKILLS

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**LANGUAGES:** C#, Python, Java, C, HTML and CSS, JavaScript, TypeScript, SQL, Visual Basic, Swift, Haskell, R

**TECHNOLOGIES:** Git, Angular, AngularJS, ASP.NET, Node.js, .NET Core MVC, SVN, Arduino, Android Studio, XCode, MongoDB

## WORK EXPERIENCE

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**Mech Solutions Ltd**, *Front-end Developer Co-op*, Vaughan, Canada Sept. 2020 - Dec. 2020

- Designed and developed new features for the main company website Cloud 3D Print with **JavaScript**, **HTML**, **CSS**, and **Bootstrap**
- Integrated backend modules such as real-time printer monitoring and web slicing statuses onto the web application via RESTful API connections and WebSocket technology using **JavaScript** and **JQuery**
- Created GUI and function testing documentation for user interaction and website features

**Softchoice**, *Application Developer Co-op*, Oakville, Canada Sept. 2019 - Dec. 2019

- Migrated legacy service to Microsoft Azure cloud service used to handle hundreds of sales quotes and SoW daily using **Azure Function Apps**, **C#**, **LINQ**, **.NET Entity Framework**, and **MongoDB**
- Designed responsive UI and backend for internal portal used to track customer subscription reports through RESTful API endpoints using **Angular**, **AngularJS**, **.NET Core**, **SQL**, **Bootstrap**, and **CSS**
- Developed chatbot for Microsoft Teams with features such as general QnA, managing SAP HR requests and managing IT service tickets using **Microsoft Bot Framework** and **LUIS AI**

**RoboEdu Education Group Inc**, *STEM Instructor*, Toronto, Canada Sept. 2019 - Dec. 2019

- Instructed students on core computer science concepts and techniques using Java, Python, and VEX IQ
- Taught the AP Computer Science curriculum to students who achieved a maximum score of 5 on the exam
- Lead various computer science workshops on Python Open Course, and Web Design Elementary and Advanced
- Trained students for competitive programming contests such as the Canadian Computing Competition and the Beaver Computing Challenge

## EDUCATION

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**University of Toronto Scarborough** Sept. 2017 - May 2021

B.Sc Honours Computer Science Co-op - Software Engineering Stream 2021

### Relevant Courses

Software Engineering, Algorithm Design and Analysis, Software Design, Design and Analysis of Data Structures, Software Tools and System Programming, Databases & Web Programming

## PROJECTS

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**Digital Finance Institute FinTech ChatBot** June 2019 - Aug. 2019

Prototype for Canada's 1st ChatBot with encyclopedic knowledge of FinTech & AI, created using IBM & DFI tools

- Implemented user message parser, frontend to backend communication APIs, corpus indexing system for the bot backend with **Java**, **JavaScript AJAX**, and **Apache Lucene** in an Agile environment utilizing a test-driven development approach
- Created the interface and backend for admin controls such as maintaining uploaded corpus files and viewing bot statistics using **Flask** and **SQLite**

### Spotifacts

Displays user's top tracks, recommended tracks for the user, and playlist manipulation using Spotify's API

- Offers service to many users by creating a web application using **Angular.js**, using **Node.js** for authentication with **Spotify's API** service and backend