

Ivan Shen

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EDUCATION

- **University of Toronto** Toronto, ON
Bachelors of Science in Computer Science; Major GPA: 3.0/4.0 *Sept. 2015 – May. 2020 (Junior)*
- **Relevant Coursework:** Data Structures and Analysis, Computer Organization, Software Tools and Systems Programming, Software Design, Theory of Computation, Multivariable Calculus, Linear Algebra

EXPERIENCE

- **IBM** Markham, ON
Software Developer Intern — Voice Agent with Watson *May 2017 - Present*
 - Automated verification and provisioning of prerequisite services on Bluemix which **sped up install time by 330%**.
 - Developed custom **Logstash** filters for **Elasticsearch** by storing and querying based on a GUID resulting in **constant time log retrieval**.
 - Designed and implemented **React** interface to display **thousands of filtered logs and customer usage records per day**.
 - **Reduced page load time by 55%** by lazy loading log data and implementing pagination to reduce the number of logs loaded.
 - Developed monitoring automation scripts to ensure a **greater than 99.5% application up-time** on Bluemix.
 - Implemented server side **Express.js** routing system and **unit tests** for REST API's using **Mocha and Chai**.
- **Treasury Board Secretariat of Canada** Toronto, ON
Software Developer Intern — Premier's Greetings *May 2016 - September 2016*
 - Developed custom admin tables to display and organize approximately **80,000 requests per year** in **AngularJS**.
 - Created a graphing tool to parse and filter JSON data and display it in graphs in **AngularJS**.
 - Designed and implemented responsive client side validation forms.

PROJECTS

- **Spotikeys**
<https://github.com/ivanshen/SpotiKeys>
 - A Spotify extension to allow users to bind custom hotkeys to control Spotify.
 - Written in **Java** with AppleScript and Spotify's AppleScript API.
- **React Boilerplate**
<https://github.com/ivanshen/react-boilerplate>
 - A multi-page **React** application boilerplate with **Node.js** back end.
 - Supports internationalization, username and password authentication, and customizable user profiles.
- **BabyBuddy**
<http://ivanshen.github.io/babybuddy>
 - A simplified informational resource to guide women through the months of pregnancy.
- **Se7en**
<http://ivanshen.github.io/Se7en/>
 - A fun and addicting JavaScript web game to test the speed of your arithmetic!
- **Swap With Me**
<https://github.com/paulxuca/Item-Swap>
 - A textbook exchange platform to simplify the process of searching for courseware.
- **Help Me Up**
<https://devpost.com/software/helpmeup>
 - A patient monitoring Android app to alert caregivers of a patient's fall and circumstances.

SKILLS

- **Languages:** Python, JavaScript, Java
- **Technologies:** React, Node.js, Bluemix, Git