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:** Algorithm Design, Data Structures, Artificial Intelligence

PROFESSIONAL EXPERIENCE

- **IBM** — Markham, ON
  Software Developer Intern — Voice Agent with Watson — *May 2017 - August 2018*
  - Developed **Node.js** scripts to automate the verification and provisioning of prerequisite services on IBM Cloud which **sped up install time by 330%**.
  - Created custom **Logstash** filters to parse hundreds of thousands of call log messages to store in **Elasticsearch**.
  - Developed a **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.
  - Created a **Node.js** library on top of Selenium WebDriver to monitor services across IBM Cloud.
  - Developed New Relic monitoring and disaster recovery scripts **ensure 24/7 application up-time**.
  - 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.

PERSONAL 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.
  - Uses **React Intl** for internationalization, **log4js** for server side logging, **Passport.js** for username and password authentication, **bcrypt.js** to encrypt credentials, and mLab to store account content.

- **BabyBuddy**
  http://ivanshen.github.io/babybuddy
  - An **AngularJS** web application that provides information to guide women through the months of pregnancy.

- **Pacman Simulator**
  https://github.com/ivanshen/pacman
  - A Pacman AI in **Python** that uses different searching algorithms to find different paths to victory.

- **Se7en**
  http://ivanshen.github.io/Se7en/
  - A fun and addicting **JavaScript** web game to test the speed of your arithmetic!

SKILLS

- **Languages**: JavaScript, Python, Java
- **Technologies**: React, Node.js, Express.js, Elasticsearch, Logstash, IBM Cloud, New Relic, Git