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)*
- **Current Coursework:** Algorithm Design, Analysis & Complexity, Software Testing & Verification, Introduction to Artificial Intelligence, Computers and Society
- **Previous 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 - August 2018*
  - Automated verification and provisioning of prerequisite services on Bluemix which **sped up install time by 330%**.
  - Developed custom Logstash filters to parse hundreds of thousands of call log messages to store in Elasticsearch.
  - Developed 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 an automated monitoring library on top of Selenium WebDriver to monitor services across Bluemix.
  - 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.

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!

SKILLS

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