

Jonny Li

Software Engineer / University of Toronto Computer Science and Linguistics / myself@jonny.li

Education

University of Toronto

Expected Graduation Jun 2021

Honours Bachelor of Science, Computer Science and Linguistics.

Employment

SDE Intern - Amazon @ VirtualLocation

Jun 2020 - Sep 2020

- Participated in 12 week internship on Amazon Core Search, Client Services Engineering team.
- Developed **Search Engine Configuration Dependency Analyzer**, a dev tool to analyze search engine config metadata.
- Utilized Amazon internal package building systems and development environments.
- Participated in weekly meetings and utilized tools such as Kanban to communicate progress with team members.

Software Intern - Mitsucari @ Tokyo, Japan

Sep 2018 - Aug 2019

- Assisted in development of [mitsucari](#), a startup web service to analyze compatibility of current/prospect employees within a company using personality tests.
- Implemented front and back end components with **Ruby on Rails, PostgreSQL, jQuery, Bootstrap, SASS**.
- Wrote **design documents** for features such as site-wide messaging system and implemented front/back end components.

Projects

Search Engine Configuration Dependency Analyzer @ SDE Intern, Amazon

Jun 2020 - Sep 2020

- Created an internal **Python** tool to return the dependency chain of any given search engine configuration metadata object.
- Implemented **DFS with memoization techniques** on 20,000+ search engine configuration metadata objects.
- Conducted manual analysis on search engine configuration metadata to determine relevant dependencies of each object.
- Devised efficient methods to store large amounts of dependency chains from program output.
- Contributed to ongoing effort to clean up unused search metadata with actual results from tool.

jp-bot

Apr 2016 - Dec 2019

- Created and developed a [Discord](#) chat bot written in **Python** and deployed on **Heroku**, for Japanese language learning.
- Implemented web scrapers for online dictionaries using HTML parsing libraries such as lxml.
- Implemented server moderation features to keep track of punished/banned users utilizing **MongoDB**.
- Created a website to display server statistics using data from **MongoDB** and front/back end in **PHP/JavaScript**.

uoft-scheduler

Sep 2016

- Created a scheduling dashboard web app for University of Toronto students at **Hack the North 2016**.
- Designed and implemented front end interface with **Bootstrap** and **jQuery**.
- Implemented back end with **node.js** and data from **Google Maps API** and web-scraped data from UofT website.

Activities

Foreign Exchange - USTEP @ University of Tokyo

Sep 2018 - Aug 2019

Participated in University-wide Student Exchange Program (USTEP) at University of Tokyo for one year.

Webmaster - University of Toronto Japan Association @ University of Toronto

Oct 2016 - Aug 2018

Utilized **Wordpress, HTML/CSS** to manage website. Organized culture festivals and language exchanges to promote and facilitate culture exchange between Japanese and Canadian students.

Workshops Lead - Neurotech UofT @ University of Toronto

Sep 2017 - Apr 2018

Created beginner-oriented tutorial workshops such as intro to programming (**Python**) and version control (**Git**).

Languages and Technologies

Python JavaScript Ruby on Rails PHP Java C# Full Stack Web Development SQL