

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

Relevant courses: Data Structures, Algorithms, Operating Systems, Computational Linguistics, NLP, Machine Learning

Skills

Programming Languages: Python, JavaScript, Java, C#, Ruby, PHP

Technologies/Frameworks: Git, SQL databases, MongoDB, NodeJS, Ruby on Rails, Bootstrap, jQuery, SASS, Heroku

Other: Agile methodologies, Test suite frameworks, CI/CD tools

Employment

SDE Intern - Amazon @ VirtualLocation

Jun 2020 - Sep 2020

- Developed Search Engine Configuration Dependency Analyzer, an internal Python tool to return the dependency chain of any given search engine configuration metadata object.
- Implemented DFS with memoization techniques on dense dependency graph of 20,000+ metadata objects and millions of dependencies.
- Conducted manual analysis on metadata to determine relevant dependencies of each object.
- Devised efficient methods to store large program output as JSON objects in Amazon S3.
- Contributed to ongoing effort to clean up unused configuration metadata with analysis results from tool.

Software Intern - Mitsucari @ Tokyo, Japan

Sep 2018 - Aug 2019

- Participated in agile development team to deliver [mitsucari](#), a startup web service to analyze compatibility of current/prospect employees within a company using personality tests.
- Implemented model/view/controller components of website with Ruby on Rails, PostgreSQL, jQuery, Bootstrap, SASS.
- Wrote design documents for features such as site-wide messaging system and implemented them.

Projects

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 @ Hack the North 2016

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 using data from Google Maps API and web-scraped data from UofT website.

Activities

Foreign Exchange - University of Tokyo @ Tokyo, Japan

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, JavaScript to manage website.
- Organized culture festivals and language exchanges to promote 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).