Larry Liu

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Linkedin

Github

Technical Skills

Languages: Java, C, Python, JavaScript, MySQL, PHP
Technologies: JQuery, Ajax, JSTL, Pandas Framework, Python Lex Yacc, React, Node.js, Drools, Git

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Experience

Computer Science Intern - Single Stop USA Inc, New York City, NY   May 2016 to August 2016
- Implemented version control through Git and taught Git, techniques like committing and pushing, to a non technical colleague to ensure backups in case of unexpected computer failure after submitting news articles.
- Updated assorted Wordpress plugins, such as the blog theme to ensure better functionality and user experience.
- Cleaned up the comments database, by removing bot messages for faster speed and to relieve website storage.
- Corrected errors with JavaScript with a focus on those occurring between the website and the Google Maps API.
- Assisted Manager on trips to fix network connectivity issues and error messages in company android applications by gathering data on these errors via manual testing in the devices deployed on client sites.

Catalog Database Manager - Super United LLC, New York City   July 2014 to August 2014
- Created new item entries for new products on arrival and ensured that all product descriptions were up to date.
- Fixed errors, like missing or defective entries in the database, and assisted colleagues when problems in the sale software arose with customers on site by editing or creating those entries immediately in the database.

Projects

Language Parser and Compiler:
- Built a Python compiler that utilized an obscure library, "Lex-Yacc", which was designed to separate code into snippets and then making a code tree, leading to easier parsing and then compiling.
- The compiler uses recursive regex functions to parse large blocks of code so end-users could insert chunks of code and then print the results.
- Utilized algorithms in Python to implement common data structures, conditional statements, type primitives and common operators. Functions separated into block-like nodes were used to represent these in order to efficiently parse and compile code.

UTF Converter:
- Built a C application using bit manipulation to convert UTF-8 encodings to UTF-16, encodings that represent different symbols such as ASCII characters, and vice versa, to change from different architecture types easily.

Spruce - Project Leader:
- Worked with a team to create a Movie and Television Reviewing website modeled after Rotten Tomatoes.
- Website was designed by bootstrap, the site could make easy changes in appearance via Ajax and JSTL. Ajax allowed elements on the page to be changed after the first load. JSTL, a library that enables quick changes to the site before load, allowed a single page template to become a webpage for a specific movie or television series.
- All data necessary is supported by MySQL Database, it has a easy data management system with tables and fields, and a Python script, for easy access of themoviedb.org's API, for easy conversion of data from themoviedb.org through the Pandas Framework, and for easy query injections leading to faster data uploading.
- Backend was supported with Java and JQuery to allow for easy data transfer from the database to the DOM.

Education

B.S. in Computer Science   August 2014 - May 2018
Stony Brook University, Stony Brook, NY   Cumulative GPA: 3.43