Christine J. Tang *July 4, 1998*

chrisjtang98@gmail.com • (973) 960-2295 • github.com/chris-j-tang • linkedin.com/in/chris-j-tang

Summary

As a self-motivated individual who pursues quality over quantity in a fast-paced world and prioritizes reducing tech debt over shipping buggy code, I enjoy leading and being a part of a team working on cutting-edge innovations.

Education

Rensselaer Polytechnic Institute — TROY, NY
Computer Science, Math (BSc) – Economics Minor **– 3.8/4.0** — *May 2019*

Experience

Language Endowed Intelligent Agents Laboratory (LEIA) — TROY, NY
Research Assistant & System Administrator — *Feb '17 – present*
Ubuntu Linux, Bash shell/scripts, Python, git, svn
- Implemented entire server data migration remotely using ssh, scp and rsync in Bash shell to upgrade from a physically unaccessible 450G Ubuntu 10.04 server to two Ubuntu 16.04 4T servers and to increase security by physically and remotely limiting server accessibility
- Reimaged remotely unaccessible and corrupted central server by physically copying over /home, /data and /etc files onto a backup, wiping the corrupted server, reinstalling the distro, repartitioning the server, and fetching backed up files ensure user privacy
- Configured and wrote bash scripts to automate user creation across servers and to restart mongod, Python/bash scripts necessary for lab projects' and data's remote accessibility on server restarts

General Language Syntax (GLS) – Microsoft/RCOS Project
Collaborator — *Feb '17 – present*
Typescript, Python, git
- Increased functionality, developed automated tests for GLS's math libraries for conversions from GLS commands to those of various supported object-oriented languages such as C# or Java
- Designed and implemented syntactical flexibility for GLS command conversions to Ruby for certain math commands by adding the base layout for Ruby's unique syntax for certain math commands
- Worked with a Microsoft FTE to streamline the core command rendering engine driver by recognizing an unnecessary function called by the parser when preparing to render GLS commands into other languages and removing or replacing all corresponding calls and tests of it in the existing code
- Designed and implemented prevention of banned keywords for variable names to prevent users from using invalid variable names by compiling a Typescript key/value map (hashtable) of invalid variable names in supported languages and including a function that returns the validity of a parameter

Wikipedia Philosophy Crawler
Personal Project — *Winter '16*
Python, Beautiful Soup 4
- Designed and completed a Python script using a HTML parser to automate crawling through Wikipedia articles until the Philosophy page is reached
- Scraped pages for hyperlinks, and used regex to remove those italicized or in parentheses
- Implemented features such as avoiding possible repeats by storing visit history in Python dictionary and including the option of specifying a starting page or start randomly via terminal input

VEX Robotics
Team Leader — *Summer '15 – Fall '15*
RobotC, Arduino IDE, VEX/FTC competition parts, Arduino, git
- Oversaw building and coding of a controlled robot that played a version of basketball using a rubber band 'net' to scoop up and store multiple balls at once and a spinning motor of variable speeds with an adjustable chute to aim and launch balls at target nets to score
- Managed construction and maintainance of an autonomous robot capable of navigating collision-less through corridors in a school-wide competition (placing 1st out of 8 teams) using magnetic and proximity sensors

Interests

Non-exhaustive and in alphabetical order: bouldering, chess, running, violin, wargames (CTF)