

Christine J. Tang *July 4, 1998*

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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

Computer Science, Math (BSc) – Economics Minor – 3.8/4.0

TROY, NY

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- Implemented entire server data migration remotely using ssh, scp and rsync in Bash shell to upgrade from an outdated 450G Ubuntu 10.04 server to two Ubuntu 16.04 4T servers and to increase security by limiting server accessibility and making backups
- Reimaged remotely inaccessible 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 syntax support for Ruby's syntax
- Worked with a Microsoft FTE to streamline the core command rendering engine driver by recognizing unnecessary and superfluous steps taken by the parser and reducing or replacing functions called
- Designed and implemented prevention of banned keywords for parameter variable names

Wikipedia Philosophy Crawler

Personal Project

Winter '16

Python, BeautifulSoup 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

VEX Robotics

Team Leader & Member

Summer '15 – Fall '15

RobotC, Arduino IDE, git

- Led a team of 3 to build and code an autonomous robot to navigate through corridors using magnetic and proximity sensors
 - Led a team of 5 to construct and maintain a controlled-robot to play a version of basketball
 - Designed the underlying code base for the VEX competition with a team of 3
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Interests

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