Yu-Ching Chen

Unit 802 - 7 Concorde Place North York • Ontario • M3C 3N4 (416) 906-5378 • yuch.chen@mail.utoronto.ca http://yuch7.github.io

SUMMARY

Completed computer science specialist program at University of Toronto focusing on computer systems. Interested in most aspects of computer science, but more interested in C and hardware programming. Have been using Linux operating system for 4 years and currently using Arch Linux. A member of University of Toronto's computer science student union; helping out on their events and students in computer science needing help.

PROFESSIONAL EXPERIENCE

<u>Junior Developer</u> June '11 – Sept '11

411.ca

- Created PHP scripts running tests on a Selenium server.
- Back end web testing on test servers and on primary server
- Active part of the IT department, participated in scrum meetings and engaged in the sprints.
- Set up local server for localized controlled testing

TECHNICAL

- C/C++
- Java
- Python

- Ruby
- Verilog
- assembly language

EDUCATION

University of Toronto
Honors B.Sc

Class of 2016

Computer Science Specialist Computer systems focus

PROJECTS/VOLUNTEER

Fault tolerant chat server (2016)

UDP and TCP chat client that interfaces with the server given a specific http protocol as a distributed system. Client must connect to server by obtaining information from a static location server and exchange control packets using TCP while opening channels open UDP sockets for message exchange. Client must also be user friendly and fault tolerant to the point where users never experiences bugs or crashes.

Code provided on github -CSC469

<u>CPU microbenchmark</u> (2016)

Purpose of the benchmark is to explore how Operating Systems delegate tasks and the time it takes, specifically x86 systems running Linux. Also to understand how numa nodes work and benchmarking the speed it takes for CPUs to read and write from the nodes. Able to explain what each benchmark tests and compare with other technologies. Code provided on github -CSC469

<u>Compiler Creation</u> (2016)

Created a single pass compiler in java to a specific grammar. Top down LL parser for lexical analysis and parsing text into tokens. Used visitor pattern for creating abstract syntax tree for syntax analysis and symbol tables design. Passed into code generation where we were given a machine specification (memory, stack pointers, available machine instructions, data types). Optimized compiler with certain design in activation records and loop optimization.

Code available on request

Rails educational website (2015)

Part of a team of eight that created a website for education in computer science. Bootstrapped theme, user account creation with devise, ruby scripted web scrapper to pull important information from Wikipedia using rails (my biggest contribution).

Code available on request

CSSU Member - CSSU events & Hack nights

(2015-2016)

Office administrator at UofT's undergrad computer science student union. Assisted all members of the union, helped represent computer science undergraduate students and assisted with any problems. For majority of the hack nights hosted this year, I mentored and supervised peers on any help they needed with any hacks to the best of my ability. Also helped set up and run most other CSSU events.