Yu-Ching Chen

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Education

University of Toronto St. George Campus — class of 2016

Hons. B.Sc.
Computer Science Major (computer systems focus)

Professional Experience

IBM Systems (Platform LSF)

Staff Software Developer — Jan 2018-Present

Notable projects

- ➔ Currently own the projects around hybrid cloud component of LSF. LSF Resource Connector interacts with Google cloud, Microsoft Azure, Softlayer, Openstack for external high performance computing needs.
- ➔ Designed and implemented new protocols for communication between the multiple daemons of LSF. Dealing with synchronization, information encode/decoding, scalability and deadlock/multi-process problems.
- ➔ Formulated and implemented an algorithm to normalize a weighted tree for absolute priority scheduling of users (1 patent filed, 1 patent pending).

General

- ➔ Major involvement ensuring the quality of each release.
- ➔ Working on large codebase, implementing features and finding solutions to problems in c, using linux system libraries. All solutions implemented conforms to backward compatibility, especially considerate with partial updates on different versions of client and server sided binaries.
- ➔ Exposure to different compiler and kernel standards as a result of the enterprise software that supports Windows, Linux, ARM64, ppc64le, Solaris, HP-UX, AIX64, CrayX, MacOS environments.
- ➔ Always have a can-do attitude, not afraid of asking questions and collaborating with other developers to ensure the best solutions by comparing advantages and shortcomings.
- ➔ Takes the time to explain the design and the idea to quality assurance and internal documentation team, making sure test cases are complete and internal documentation is accurate.
- ➔ Extensive use of GDB to debug various platforms from x86-64, ppc64le, ARM64.

Software Developer — Jan 2017-Jan 2018

Internal Tools

- ➔ Working in distributed systems, creating tools to help QA and reading large codebase to get better acquainted with 25 years of features.
- ➔ Explored c and c++ linker options to Implement stress programs and test frameworks interacting with LSF's c Apis in c++.
- ➔ Wrote many scripts in bash and python to automate many everyday tasks.