Denton Liu

Software Engineering

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in DentonL
O Denton-L

Technical Skills

- o Proficient in Java, C, C++, Python and various assembly languages.
- o Enjoys working in and understanding low-level environments such as embedded systems.
- o Familiar with building websites using HTML5, CSS3 and JavaScript.
- o Adept with Linux and common applications such as Git and GDB.

Projects

LAByrinth

- o Created a labyrinth game using an Arduino-like microcontroller with C.
- o Utilised both serial and parallel I/O to communicate with peripherals.
- Wrote an abstraction layer over hardware in order simplify higher-level development.

Breadboard Computer

- o Created a computer based on the 6502 processor on a breadboard using only ICs (integrated circuits).
- Programmed a version of Pong using 6502 assembly.
- o Utilised an EEPROM programmer to load an assembled hex image.

Java-Webchat

- Employed RMI (Remote Method Invocation) to communicate between server and clients.
- o Implemented a user database which took precautions to secure user data using salted hashes.
- o Made use of object-oriented programming principles in order to create a cleaner codebase.

Experience

2014

IT Volunteer, Administration, Newcomer Centre of Peel.

- o Created tool to backup user data using Windows Batch scripting.
- o Acted as system administrator.
- o Provided technical assistance to employees.

2010-2015

Cadet Warrant Officer, Royal Canadian Air Cadets, 700 David Hornell VC Squadron.

- o Planned and organised events, such as training weekends, as a member of a team.
- o Captained the drill team consisting of the squadron's most successful cadets.
- o Commanded over 120 peers during graduation parade of Drill and Ceremonial Instructors Course.

Education

2015-2020

Candidate for Bachelors of Software Engineering, University of Waterloo, Waterloo, Ontario.

Cumulative GPA: 3.85

2011-2015

Ontario Secondary School Diploma, Martingrove Collegiate Institute, Toronto, Ontario.

Academic Average: 95.0%

Awards and Scholarships

2015 Sandford Fleming Foundation Programming Competition Award

Second Place

2015 Dean's Honours List at University of Waterloo

Term Average of 87% or Greater

2014 University of Toronto High School Design Competition

First Place

Interests and Hobbies

- o Plays cello, double bass and piano.
- o Avid unicyclist.
- Fanatical user of LATEX.
- o Proud Vim user.
- o Runs Arch Linux on personal computer.