Steven Xu

Electrical Engineering
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Skills Summary

- Knowledgeable in Java, C++/C, MATLAB, HTML, CSS, JavaScript, Angular JS, jQuery, Bootstrap, JSON, VHDL, Protractor, Python, Pytest, Node Js, Postman, and Assembly (LPC1768)
- Proficient in Microsoft Office, Visual Studio, CLion, Quartus II, Android Studio, and AutoCAD
- Prior experience involving application development, and software testing using Android Studio
- Experienced in digital circuits and microprocessors developed through labs and projects
- Familiar with working in Linux operating systems, and with git version control

Work Experience

Test Automation Engineer   *Wind River Systems, Kanata, ON*   *May 2018 – Aug 2018*
- Created test cases for the Remote Access filters on the UI Launchpad using protractor
- Developed both C and Python Device Cloud Applications in a Linux Ubuntu environment
- Improved both the speed and efficiency of Remote Access filters UI testing by over 300%
- Fixed a few bugs in both the Device Cloud Applications and the test automation script for the remote access filters on the UI Launchpad

Quality Assurance Analyst   *Inflight Corporation, Kitchener, ON*   *Sept 2017 – Dec 2017*
- Improved the company's process of quality assurance through writing new test cases for all websites and implemented a new and more efficient method of conducting QA
- Performed Android, IOS, smoke and regression testing on all required modern sites
- Managed all issues and new features developed on the sites through using Jira and Confluence

Web Analyst   *West Corporation, Toronto, ON*   *Jan 2017 - Apr 2017*
- Migrated HTML code content from foreign websites to the company's website template
- Integrated the process of Search Engine Optimization (SEO) onto each of the new websites
- Conducted quality assurance for all migrated websites
- Wrote an operations procedure manual consisting of steps on how to complete each job task

Relevant Projects

Personal Website   *July 2018 - present*
- Developed a personal website using HTML, CSS, JavaScript, and created a complete email validation form on the contacts page using PHP 5
- Improved the user compatibility of personal website by making it mobile responsive so it can display properly on mobile devices using media queries and JavaScript
- Fixed a couple of existing bootstrap bugs on the site

Quadratic Hash Table   *University of Waterloo, Waterloo, ON*   *Jan 2018 - Jan 2018*
- Developed a program in C++ that allows users to store data inside of the appropriate bin of a quadratic hash table, other features include removing data, double the load factor, and return the number of elements currently stored
- Fixed a few bugs relating to the removal of data from the hash table
- Tested the project on a Linux environment

Double Sentinel Linked List   *University of Waterloo, Waterloo, ON*   *Jan 2018 - Jan 2018*
- Developed a program in C++ that allows users to store data inside of a double sentinel linked list, other features include adding to the list, erasing from the list, copying data to a new list, moving the data to a new list, returning the size of the list, and finding a specific value in the list
- Tested the project on a Linux environment

Android Application Development   *University of Waterloo, Waterloo, ON*   *May 2017 – July 2017*
- Created a sliding block puzzle game with the same rules as 2048 controlled by hand gestures with full design documentation and a UML diagram defining and linking up all objects
- Shown great initiative by assigning roles and creating a schedule for other group members

Traffic Light Control Signal   *University of Waterloo, Waterloo, ON*   *May 2017 – July 2017*
- Implemented two sets of traffic light control signals onto an FPGA using VHDL code
- Shown great leadership, communication, and time management skills by arranging meetings to ensure that other group members are up to speed and received a grade of 100% on this project

MP3 Program   *Sir John A. Macdonald C.I., Toronto, ON*   *May 2015 - June 2015*
- Independently coded a program that can keep track of songs, artists, and song length, the user can add, delete, and find songs from the program
- Upgraded the program to make it calculate the sum of all song lengths

Report Card Program   *Sir John A. Macdonald C.I., Toronto, ON*   *May 2014 - June 2014*
- Created a program that calculates student's marks; student name, mark can be added, found, deleted, changed and updated based on the input of relevant information
- Shown the ability to learn quickly by understanding the GUI and implement it to the program

Personal Interests and Hobbies

- Playing and Watching Basketball
- Watching movies and TV shows
- Listening to music
- Website Application development
- Playing video games

Education

Candidate for Bachelor of Applied Science, Honors Electrical Engineering, Co-op Program
University of Waterloo, Waterloo, ON   *Sept 2016 - Sept 2021*
Awards:
- President's Scholarship at the University of Waterloo (average mark between 90% and 94.9%)
- Pascal, Cayley and Fermat Math Contest Certificates (scored in the top 25%)
- SLAM Basketball Tournament Champion