JAY VYAS

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3A Computer Engineering
University of Waterloo

Work Experience

Compiler Optimization Developer
IBM
Jan 2015 - April 2015
Markham, ON

- Implemented and shipped SSE/AVX functions in VECLIB using POWER intrinsics
- Created scripts/tools to detect and translate source programs into VECLIB compatible programs
- Executed functional and performance testing in BE and LE

Software Developer
AppZero
May 2014 - Sept 2014
Ottawa, ON

- Improved automated scripts for the PACE migration tool
- Implemented bug fixes for front end (UI) and back end
- Used python as a rapid prototyping tool to test and implement automation of application discovery
- Performed system, functional, and performance testing on AppZero using automated and manual testing methods

IS Analyst/Operations Datacenter
Maple Leaf Foods
Sept 2013 - Dec 2013
Mississauga, ON

- Provided support for 400+ servers internationally
- Assisted with inventory, rack/row mapping, cabling infrastructure, and other tasks to 250 local servers
- Installed servers, switches, and other hardware using swing gear to assist with the data center relocation project

Computer Systems Assistant
University of Waterloo
Jan 2013 - May 2013
Waterloo, ON

- Migrated over 100 machines from Windows XP to 7
- Managed 600+ systems in the Psychology department by debugging problems and finding solutions
- Modified batch scripts for reimaging machines

Education

Sept 2012 - current — **Candidate for Bachelor of Applied Science in Computer Engineering**
Waterloo, ON — University of Waterloo

Relevant Courses:
- Algorithms & Data Structures, Operating Systems, Compilers, Electronic Circuits, Embedded Microprocessor Systems, Digital Computers, Digital Circuits

Projects

Audio Processing 2014
- Read bit stream from WAV file to create sound on an ARM board
- Produced audio capable of playing in normal speed, half speed, double speed, reverse, and delay with board interaction

Reflex Meter 2014
- Implemented a program to determine user's reaction time to change of LED inputs on the ARM board using Assembly

Skill Set

Application:
- C#
- Java
- C / C++
- Python

Hardware:
- Assembly
- VHDL
- BASIC
- C

Scripting / Databases:
- Python
- Batch (DOS)
- MySQL (SQLite)

Environments:
- Windows
- UNIX / Linux
- AIX
- Virtual Box

Version Control:
- SVN
- Git
- RTC

Hardware & Lab Equipment:
- ARM microprocessor
- PIC microcontroller
- Bread-board design
- Schematic analysis
- PCB (design & solder)
- FPGA

Interests/Passion:
- Learning new technologies
- Robotics/VEX
- Scripting/Automation
- Fitness
- Sports