Jay Vyas

2B Computer Engineering

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SOFT SKILLS

- Excellent work ethics; willing to put in effort for success and motivated to learn new skills
- Outstanding communication and teamwork skills developed through previous work experience
- Flexible and adaptive to new situations and challenges; always working with a positive attitude
- Exceptional time management skills gained from working in a fast paced startup environment
- Superior attention to detail and troubleshooting experience obtained from various work experience

TECHNICAL SKILLS

Application Development: C#, C++, C, Python, Java

Hardware Development: Assembly, VHDL, BASIC programming, C

Web Development: HTML, CSS

Scripting: Python, Batch programming (DOS)

Integrated Development Microsoft Visual Studio, Eclipse, Altera's Quartus II, PICAXE,

Environments: Keil uVision, Multism 11.0

Database: SQL (SQLite)

Familiar OS: Windows, UNIX / Linux

Version Control: SVN, Git

Lab Equipment/Hardware: ARM microprocessors, PIC microcontroller, bread-board design,

schematic analysis, PCB (design & soldering), FPGA, Oscilloscope, multi-meters, function generator

WORK EXPERIENCE

Software Developer

Ottawa, ON

AppZero

May 2014 - September 2014

- Improved automated scripts designed for AppZero's PACE migration tool using Python and Batch programming; implemented .csv and .txt file generation for big data/data mining
- Used Python as a rapid prototyping tool to test for and implement automation of application discovery
- Implemented bug fixes for front end and back end using C++, C# in MS Visual Studio
- Performed system, regression, functional, and performance testing on AppZero using both automated and manual testing methods in virtual machines using Virtual Box

IS Analyst/IS Operations - Datacenter

Mississauga, ON

Maple Leaf Foods

September 2013 - December 2013

- Monitored and provided support for SAP, BPCS, other legacy systems, and system back-ups of over 400 servers throughout Maple Leaf Foods at an international range
- Provided asset management services including inventory, rack and row mapping, and placement of 250 servers in data center along with managing power and cabling infrastructure for the equipment

- Performed daily sending/receiving of backup tapes, data integrity validation, and offsite data storage inventory, along with providing data recovery and restore services
- Handled all non-production transports to different environments (releasing and importing) with SAP
- Assisted in setting up and installing computer hardware (servers) into the Data Center using swing gear
- Created and maintained documentation for SOPs while training new full time employees

Computer Systems Assistant

Waterloo, ON

January 2013 - May 2013

University of Waterloo

- Successfully migrated 100+ machines from Windows XP to Windows 7
- Managed over 600 systems within University of Waterloo's Psychology department
- Assisted and troubleshot systems for students, post-graduate students, and faculty members
- Worked with networks (conflicting IP addresses) and re-wiring & organizing the wiring closets

Customer Service Specialist

Brampton, ON

Wal-Mart Inc.

May 2011 - September 2012

PC Technician - Co-op Student

Mississauga, ON

Arco Computers Ltd

June 2010 - August 2010

EDUCATION

University of Waterloo

September 2012 - April 2017

Candidate for Bachelor of Applied Science in Computer Engineering (Honors BASc)

Relevant Courses: Embedded Microprocessor Systems, Operating Systems, Algorithms & Data Structures, Engineering Design and Embedded Systems, Digital Computers, Fundamentals of Programming, Linear Circuits, Electronic Circuits, Digital Circuits and Systems

PROJECTS

Reflex Meter March 2014

- Implemented a program to determine user's reaction time using the ARM microprocessor, programmed in Assembler with THUMB (subset of ARM) instruction set (RISC)
- Program utilized polling and interrupts to record time elapsed of user's reaction time to changing
 of LED's state and pressing a button; reaction time was displayed in 32 bits for 0.1ms x delay

Traffic Light Controller

August 2013

- Simulated an intersection traffic light system with day/night mode using a finite state machine
- Flashed the LEDs at different frequencies using the built in clock; implemented using a modulus and binary clock divider and used buttons to detect humans/cars to change states
- Utilized an FPGA board and programmed the simulator with VHDL in Quartus II

Autonomous Line Following Robot

April 2012

- Designed a robot using opto. sensors and PIC microcontroller using C and BASIC
- Programmed the robot to accurately follow and complete different routes autonomously
- Optimized robot design and placed 2nd in class competition, 7th place in Peel Region

ACTIVITIES & INTERESTS

- Passionate about robotics and hardware/software integration (activities include VEX and FIRST Robotics)
- Enjoy working out, playing sports like soccer and enthusiastic about competitive e-Sports and chess