David Vuong

Year Level
2A

Program
Computer Engineering, Management Sciences Option

Email
david.vuong@uwaterloo.ca

LinkedIn
http://ca.linkedin.com/in/davidxvuong

GitHub
https://github.com/davidxvuong

SUMMARY OF QUALIFICATIONS

- Developed expertise in object-oriented programming in **Visual Basic, C#, C++, Java** as well as Android application development using Eclipse SDK and version control using SVN Repository (Subclipse) through academic studies and personal exploration
- Familiar with various web development scripting and software platforms such as Microsoft InfoPath, SharePoint, Microsoft Dynamics CRM, **CSS, HTML, XML, jQuery, Ajax, JavaScript, Google API**, as well as web development and management platforms such as WordPress and cPanel
- Implemented digital logic circuits using both IC chips and **FPGA (Field-Programmable Gate Array)** using **VHDL** coding
- Working knowledge of various data structures and algorithms (both sorting and searching) through personal exploration such as stacks, queues, trees, binary trees, heap sort, quicksort, radix sort, and merge sort
- Conceptual and practical knowledge of computer technologies including VPN technology, routing, switching, and wireless technologies, and internal network security, troubleshooting network and computer hardware and software problems
- Developed strong leadership, communication, and teamwork skills through major projects and extracurricular activities, as proven through **outstanding** evaluations from all co-op positions

WORK EXPERIENCE

Information Technology Intern – Application Services
Multiple Sclerosis Society of Canada, Toronto, ON, September – December 2014

Offered to return to the organization following an Outstanding work term evaluation

- Assisted with the on-going development of the Microsoft Dynamics CRM, implementing JavaScript and jQuery scripts to perform unique tasks within the CRM
- Utilized the Google API to develop unique tools that are not available in the client services database
- Configured and tested the phone integration between the CRM and the existing IP phone system, ensuring that any calls inbound or outbound would pop the client's information from the database
- Review resumes conduct co-op interviews for the Winter 2015 work term through the University of Waterloo JobMine system
- Continued to administer the existing Microsoft SharePoint system and agile development of Microsoft InfoPath forms for the organization

Information Technology Intern – Application Services
Multiple Sclerosis Society of Canada, Toronto, ON, January – April 2014

- Created forms and workflows for deployment within the internal network using Microsoft InfoPath and SharePoint Designer; familiar with XML scripting through modifying template files and field values of InfoPath forms
- Developed software code and scripts in HTML, CSS, JavaScript, C#, and Visual Basic to improve internal websites, and support unique features in forms that are not available through Microsoft InfoPath
- Implemented various programming techniques such as conditional and iteration statements, arrays and string manipulation, functions and methods, OOP techniques, and built-in methods/classes
- Held meetings and web conferences with users to discuss requirements for new and ongoing projects; developed flowcharts through Microsoft Visio to map the logic that will be implemented through code, workflows, and/or rules
- Provided secondary level support to employees across Canada; managed access permissions to team sites and document libraries within the internal network; closed and resolved tickets through the ManageEngine ServiceDesk Plus ticketing system

MAJOR PROJECTS

Battleship
- Developed a multiplayer Battleship game in C# that runs over any local LAN network
- Further enhanced my knowledge in computer networking at the application layer of the OSI model
- Source code available on my GitHub (https://github.com/davidxvuong)

Custom Google Maps Project
- Developed an interactive map using the Google Maps API and JavaScript that would display the nearby MS Society office locations based on the client's address fetched from the CRM
- Source code available on my GitHub (https://github.com/davidxvuong)

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Computer Networking Project
- Developed and configured a large-scale computer network implementing various networking protocols on routers and switches
- Networking protocols configured includes PPP, frame relay, OSPF, EIGRP, RIPv2, DHCP, STP, Access Control Lists, VLANs, and NAT

Clock Simulation Project
- Developed boolean expressions using boolean logic laws, theorems, and techniques such as the DeMorgan's Theorems and Karnaugh Maps
- Using the boolean expression developed to wire the circuit using integrated circuit chips such as the AND, OR, NOT, NAND, NOR, seven-segment LED, and the decoder chip

Life in Electrical and Computer Engineering – Collaborative Blog
- Co-founded a collaborative blog, which educates prospective students about our experiences in ECE, to avoid mistakes commonly made among students, and tips to succeed in post-secondary education in engineering
- Blog can be visited at http://lifeinece.ca

EXTRACURRICULAR EXPERIENCE
Hacker, EngHack
University of Waterloo, Waterloo ON
October 2013 – November 2013
- Competed in a campus-wide hackathon, predominately against students in the Faculty of Engineering and Faculty of Mathematics
- Developed a two-player C# Battleship console application using OOP techniques such as classes, inheritance, polymorphism, etc.
- Developed skills such as time management, team collaboration, project management, and leadership

Team Captain, Cisco NetRiders IT Skills Challenge
Cisco Networking Academy, Toronto ON
February 2012 – May 2013
- Competed in a USA-Canada IT skills and computer networking competition hosted by the Cisco Networking Academy for two consecutive years
- Developed teamwork skills and applied computer networking concepts to simulated problem sets such as using known network protocols (EIGRP, OSPF, NAT, ACL, STP) to meet network requirements

EDUCATION AND PROFESSIONAL DEVELOPMENT
Candidate for Bachelor of Applied Science (BASc.)
Honours Computer Engineering Co-op, Management Sciences Option, University of Waterloo, Waterloo ON
September 2013 - April 2018 (expected graduation)

Cisco Certified Network Associate (CCNA)
Cisco Certifications
March 2013 (Verification Code: 413608443492HMDG)

Focus on Information Technology (FIT): Network Systems and Operations
Information and Communications Technology Council (ICTC)
November 2013 (License 2813)

CERTIFICATES, AWARDS, AND HONOURS
- 1st Place (Provincial) and Finalist (North America), Cisco NetRiders IT Skill Challenge, Cisco Networking Academy, May 2013
- Excellence in Computer Networking – Grade 12 (top mark in school), SATEC @ W.A. Porter Collegiate Institute, November 2013
- Excellence in Computer Engineering – Grade 11 (top mark in school), SATEC @ W.A. Porter Collegiate Institute, September 2012
- University of Waterloo President's Entrance Scholarship, University of Waterloo, May 2013
- Adel S. Sedra Entrance Scholarship, University of Waterloo, May 2013