

Summary

- **Field of Interest:** Integrated Circuit Design, Artificial Intelligence and Android Development
- Strong programming skills with the ability to adapt to different languages and systems
- Creative individual capable of coming up with unique solutions
- Excellent communication skills: ability to articulate information in a clear, organized manner

Work Experience

JSI Telecom

Framework Developer (January 2015 – May 2015)

- Worked with an Agile scrum team to make Team Foundation Server the central point of Application Lifecycle Management and Git the standardized version control system
- Main UI/UX developer for applications that allowed the custom control of workflow management in JSI. These tools were made compatible with new features of TFS 2013 (ASP.NET)
- Developed a series of report automation applications and a centralized application to monitor all of them. (Windows Form Applications, WPF, TFS API, SQL)
- Created and modified many old scripts running in the Project Management office to adapt to the new servers and systems being implemented. (VBA, Ruby)
- Developed a Resume critiquing algorithm that allows users to rate a list of resumes with user-defined criteria. This contributed greatly to the Human Resources and Co-op students department

Matcor-Matsu Group

Systems/Network Administrator (January 2015 – May 2015)

- Responsible for complete IT and network infrastructure at Mississauga plant
- Worked with IT teams to virtualize servers and monitor them using VMware vSphere Client
- Collaborated with Engineers to troubleshoot complex system level issues occurring with the software controlled robot arms.
- Implemented access points/routers around the plant to increase networking range for machines
- Maintained Active Directory, updated security policies, documentation on the intranet

Technical Projects

Arduino, Sensor Data Analyzer

- Developed sketches that allow the Arduino microcontroller to feed sensor data via Serial/Ethernet/Bluetooth protocols to a PC for processing by a C# application
- User can receive emails 3 times a day with a detailed account of temperature statistics in his room

Natural Language Processing (NLP), Android Application

- Currently developing a native Android application using Google Voice API that could change the way programming is approached by users not acquainted with the syntax of computer science
- The application is based on concepts involving natural linguistic programming and artificial intelligence

Altera DE2 Board, FPGA-PLD Design

- Programmed the FPGA using VHDL and the Altera Quartus II Design Suite to learn the fundamentals of hardware design
- Projects involved developing car control system, elevator control system, traffic light control system

Order Now, Android Application

- Currently developing an Android Application that allows users to order online at select food chains. The app requires users to sign up to a backend SQLite database system that I created.
- Users can order online indicating pick up times: 5, 10 or 30 minutes

Technical Skills

Development Boards

Arduino Uno R3, Raspberry Pi
Altera DE2 FPGA Board

High - Level Languages

C#, Java, XML, jQuery, HTML, CSS

Low - Level Languages

VHDL, Arduino (C/C++)

Scripting Languages

VBA, Python, Ruby

Query Languages

SQL, SQLite for Android

Source Code Control

Git, TFVC, SVN

Development Environments

Visual Studio, Android Studio
Eclipse, Arduino IDE

Network Administration

VMware vSphere Client
VPN, TCP/IP

Project Management Tools

Team Foundation Server, Jira

Operating Systems

Windows XP, 7, 8.1
Linux – Ubuntu, Raspbian
Windows Server 2012 R2

Courses

University of Waterloo

Fundamentals of Programming (C#)
Linear Circuits
Digital Systems (VHDL)
Embedded Systems (Android)
Physics of Electrical Engineering
Discrete Mathematics

Coursera

Intro to Electronics
Galaxies and Cosmology
Computer Networks

Interests

Sports

High School Soccer Team Captain
High School Basketball Team PG

Music and Fine Arts

Tabla (Indian Percussion Instrument)
Beatboxing

Activities

Wild life Safaris
Organic Gardening