Will Fairclough

1905 Venus Ave. Ottawa, ON K4A 4H5
T: 613-292-5351   E: wfairclough@gmail.com

Objective

Enthusiastic software developer with a keen interest in trying the latest and greatest of mobile and web technologies. Currently focused on improving my Scala skills and building personal projects with the Play Framework. Looking to join a team of passionate developers and build great products.

- Understanding of programming paradigms and methodologies including functional programming and the web stack.
- Experience developing a wide variety of telecommunications applications such as network planning tools and optical network element simulation.
- Experienced in writing and reviewing technical specifications
- Created an iOS App and deployed it to the Apple App Store.
- Particularly interested with web and mobile application development.

Goals:
- Become more involved with web and mobile application development.
- Participate in developing more open source projects.

Experience

Software Developer at BLINQ Networks   April 2012 - Present

Team member for the wireless network management products used to manage a system of nodes, collect performance data, increase link performance, and assist with network planning.

WebUI

Web front-end node configuration management for editing RF/IP settings of the wireless backhaul nodes.

- Designed user interface mockups for web applications
- Developed a GWT front-end application with a wrapper around the ConfD JavaScript API to access the nodes configuration settings.
- XML processing for wireless nodes performance data

Node Management and Pre-Deployment

Worked in an Agile team to develop a Java Web Applications to manage live BLiNQ wireless nodes and optimize them to specific performance requirements. Plan wireless backhaul networks before deploying them with the Pre-Deployment assistant and wireless network simulator.

- Developed Web Applications in JBoss application server using Enterprise JavaBeans.
- Interoperability communication between MATLAB and Java applications using SOAP Web Services with J2EE standards.
- Designed database schema using MySQL Workbench.
- Used JMS for inter-application communication.

Contract Web Developer for Trilogy North America   August 2013 – November 2013

Worked as apart of a small team developing Trilogy North America's web application from the ground up using the Ruby on Rails web application framework.

- Worked directly with client on design and analysis decisions.
- Designed database schema to manage all the text and media to be displayed throughout the application.
- Built front-end ERB HTML views. (Some with pagination)
- Used jQuery for AJAX calls to the server.
- Setup user login to enabled admin mode for editing the sites content.
- Used Cloudinary API for cloud based image storage.
- Made front-end UI design decisions with client.
- Deployed the web application with Heroku.

Software Developer at Superna.NET   September 2010- March 2012

Working as a Software developer for an optical network-planning tool and a cloud based optical network element simulator.

- Developed applications in Java and Python for optical network planning tools.
- Worked with a team of developers on a single project while using collaboration tools for issue tracking and version control systems.
- Developed with SOAP based Web Services, and deployed them with Tomcat.
- Developed applications in C# using ASP.NET for a radio frequency network planning tool. Used HTML, CSS, and JavaScript with jQuery for the UI.
- Developed application in Java and Python for deploying virtual simulators to a VMware ESX system using the VMware Infrastructure API.
- Setup and run automation testing for a Java written Network Management System using Python.
- Attended weekly development meetings with software architects.
- Familiar with agile and scrum development methodologies.

Education   Carleton University, Computer Science   2011-2014

Took Part-Time courses at Carleton University for Computer Science. Some of the classes included:

- Introduction to Object-Oriented Programming
- Design and Implementation of Computer Applications
- Introduction to System Programming
- Programming in C++
- Programming Paradigms (Functional programming with Scheme)
- Human Computer Interaction
- Introduction to Mobile Application Development
- Object-Oriented Software Engineering
- Database Management Systems
- Linear Algebra
- Linear Algebra II

Algonquin College, Photonics Engineering Technology   2007-2010

Graduated with Honours. Relevant classes included:

- Computer Programming with C++
- Control Systems
- Computer Vision and Image Processing
- Microcomputer Interfacing

Technologies   Languages: Java, Objective-C, Scala, C++, Ruby, JavaScript
Web Frameworks: Google Web Toolkit, Play, Ruby on Rails, Node.js, jQuery
Mobile Frameworks: iPhone SDK, Android SDK, BlackBerry Cascades SDK
Databases: SQLite, MySQL, MongoDB
Source Control: Git, Perforce, SVN
Developer Tools: Eclipse IDE, Xcode, Sublime Text
OS: Mac OS X, Linux, Windows

Interests   Hockey, Snowboarding, Mountain Climbing, Rock Climbing, Hiking, Mountain Biking, Music Festivals, Programming, Mobile App Development