Donal Farrell

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SUMMARY

I am an enthusiastic software engineer with over 6 and a half years experience in creating front and back-end systems including the management of agile, global development teams that follow best practices for continuous software development and delivering flagship products. I value keeping informed about current hardware and software trends and enjoy applying my experience to solve problems. I am looking to expand my skill set and tackle interesting, novel problems.

EXPERIENCE

Software Engineer, PeekVision Ltd (www.peekvision.org)

London, UK — September 2015 - Present (Consultant; Monthly Renewal)

PeekVision is a non-profit charity that delivers an easy to use, mobile solution to scanning and assessing eye quality in a remote setting, such as rural villages in Africa. Myself and other developers are to transition a prototype into a production ready system that is flexible enough to handle differing eye care solutions and country jurisdictions.

Accomplishments
- Design of a flexible data model that covers a future expansions of the charity
- Design and implementation of an Angular2 client that guided ophthalmologists in grading patients

Software Engineer, Greenfinch Technology Ltd (www.greenfinch.ie)

Dublin, Ireland — April 2015 - August 2015 (Consultant; Monthly Renewal)

Greenfinch is a consultancy company that provides custom software to the insurance and agriculture industries. I bolstered up a team of developers who required an engineer that could quickly integrate with their range of technologies.

Accomplishments
- Developed websites and components for an insurance claims brokerage system, a large multi-site web app written in ExtJs and ASP.Net
- Researching and demoing the potential of various data analytics platforms (DataZen and RoamBI) that hook into deployed SSRS and SQL Server instances.
- Researching and implementing an Orchard CMS module that connects to an existing MS Active Directory domain on a local network and replicates itself over VPN to an external MS Azure cloud.

Software Architect, Sherwood Compliance Services Ltd (www.sherwoodcompliance.co.uk)

London, UK — August 2014 - April 2015 (Consultant; Initially a 6 Month Contract; Extended)

Sherwood Compliance acts as the middleman between insurers and their approved third-party vendors. Traditionally, they focused solely on business to business software but wanted to expand into a direct consumer relationship by way of an application that allows users to add and value their assets. It was a greenfield project and I was tasked with architecting a prototype solution.

Accomplishments
- Designed and developed a cross-platform application. It consisted of a web app made with AngularJs and an iOS/Android mobile app created using the Xamarin.Forms framework to give better integration and a more native feel. All components were synced using a ASP.Net/SQL Server backend hosted on MS Azure.
- Created integrations into insurance and local service providers and also 3rd party services to provide metadata (e.g address lookup, property area info)
- Managed a developer to help build out the iOS/Android mobile app.

Company Director, 102Somerton Ltd

Belfast, UK — December 2013 - Present

I have successfully launched my own company that provides bespoke software and consultancy solutions to a global client-base. A selection of our products include:

Caps Lock Notification (www.capslocknotificationapp.com)
This is a simple, profitable utility written in C# that allows a Windows computer to display on-screen notifications to the user describing the current state of the capitals-lock key.

Teacher's Eye
This is a native iPad application developed in consultation with Early Years specialists, including educational psychologists and teachers, to monitor and record the behavioural development of preschool children. It increases teacher efficiency in the classroom, as well as allowing the creation of comprehensive educational profiles of children to inform future educational practice.

Lead Software Engineer, UBS AG (www.ubs.com)
London, UK — January 2010 - August 2014 (Permanent)

After a 6 month placement program in 2008, I joined UBS as a permanent employee and worked in the Credit Risk IT department. Over the course of 4 years I worked on a several important projects including the emergency maintenance of legacy applications due to downsizing.

Accomplishments
- Core developer for Credit Risk's flagship UI desktop application, written in C#/WPF
- Lead development of a performance/load testing suite and a WPF UI automation framework
- Lead a global team of 5 developers for over 1 year delivering three separate projects whilst planning additional initiatives. I dealt with feature and sprint planning, design decisions, estimations, ensuring individual tasks were completed to a high standard, coordinating releases, engaging with end-users and managing defects.
- Promotion from a Non-Officer to Authorised Officer

EDUCATION

Imperial College London, Department of Computing, Masters Engineering Computing
London, UK — 2005 - 2009

Modules studied:
- Advanced Databases, Simulation and Modelling, Software Engineering, Distributed Systems, Bioinformatics, Network Security, Hardware, Media Technology, Business Studies and Robotics.

Second year project:
- Development of an online browser-based zombie trading game.

Third year project:
- Development of a digital TV broadcasting over a network using multicast.

Thesis project:
- Created a messaging system (text, multimedia) between mobile devices using a wireless ad-hoc network.

SKILLS

Below is list of technologies that I have extensively used throughout university, professional work and personal side-projects:

Languages
- HTML5; CSS / Less / Sass; Typescript / JavaScript; C#; Objective-C; Java; C / C++; Visual Basic; SOAP; SQL; Ruby

Frameworks
- Angular 2; AngularJs; MeteorJs; Bootstrap / Zurb; Ext Js; Phonegap; WPF; MS Unity / MEF Rhino Mocks; iOS (inc. Cocoa); Android; Xamarin; Xamarin.Forms; NUnit; MS UI Automation; WinForms; NodeJs; ASP.Net 5+; Ruby on Rails

Tools/Software
- JIRA; Bamboo; Jenkins; NAnt; SVN; Git (inc. GitHub); Trello; Bash; Visual Studio; IntelliJ / Android Studio; Eclipse; HP QTP; HP QualityCenter; Fiddler / Wireshark; Vagrant; ANTS Profiler; JetBrains dotTrace

Platforms
- Orchard CMS; Wordpress; SSRS; MongoDB; SQL Server; Docker; MS Azure Cloud; DigitalOcean; Oracle Databases; Documentum; MS Active Directory; Smart Card Authentication; MS OWIN (OAuth); COM Interop