Martin Donnelly

Personal Details

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Availability:	May 2016

Martin is a highly talented software developer who enjoys the challenges raised by the fast moving world of IT. He has worked on a number of time critical projects, delivering high quality software that required expertise in several different areas. Martin has the capability to grasp new technologies quickly and applies practical experience alongside new skills to provide thorough solutions at any stage of the project lifecycle, either as an individual or as a team leader. Over the course of the last ten years he has developed a number of large business systems that have successfully gone to market.

Key Skills

Javascript development including OO, DOM manipulation, HTML5, CSS3, Canvas, MVC development, AJAX and custom libraries.

Experience

SCRUM	Certified Scrum master
JAVASCRIPT	10+ years experience with Javascript, OO development & MVC based development
ASP	10 Years experience in the creation of commercial websites.
AJAX	8 years developing sites with heavy use of AJAX, includes JSON, Prototype and custom written JavaScript libraries.
SQL	10+ Years experience in the creation of numerous commercial applications and websites utilising SQL-92, Transact SQL (T-SQL), Microsoft SQL Server 6, Microsoft SQL Server 7, Microsoft SQL Server 2000, MS SQL Server 2005 and MS SQL Server 2008. This also includes writing SQL queries and stored procedures, creating indexes as well as utilising Server Integration Services (SSIS) and SQL Server Reporting Services (SSRS) and clustering.
PHP	3 years experience using PHP5, MYSQL and Apache.
MY.SQL	6 years experience using My SQL 4.5, My SQL 5 with Delphi, VB.NET, ASP and IIS Server, Apache and PHP4, PHP5.
VB	11+ Years experience in the development of various applications for Windows.
VB.NET	2 Years experience in the development of a traceability system for Windows XP.
HTML	12+ Years experience in the creation of commercial websites.
Delphi	8 Years experience in the development of applications for Windows 2000 and XP.
Ab Initio	12 months experience in the creation of Ab Initio applications.
IIS	9 Years of experience using Internet Information Services (IIS) up to and including version 7.0 on Windows Server 2008.
Phonegap / Apache Cordova	2+ years building Android and iPhone / iPad iOS HTML5 apps

Software packages used include

Development	Microsoft Visual Studio 2012, Visual Studio 2013
SQL	SQL Server 2005. SQL Server 2008, SQL Server 2012, My SQL 5, Postgres
Source Control	Subversion, GIT, Mercurial, TFS
Project Lifecycle	Microsoft Office Professional, Visio, MS Project**,** Jira, YouTrack
System	Windows Server 2008, Windows Server 2012, Ubuntu, OPENSuse, Os X
Virtualisation	VMWare vCenter, VMWare vSphere, VMWare Lab Manager. Microsoft Virtual Server 2005 R2, Microsoft Virtual server 2007, Microsoft Virtual PC 2007, Sun VirtualBox
Office Tools	Microsoft Office tools including Word, Excel, Access, PowerPoint, Outlook and OneNote

Previous Employment

Freelance Developer, Censis, March 2016 - May 2016
- Developing software for the management of IoT (Internet of Things) devices.
- Full stack development, creating and writing backend servers running on Node, database management using Postgres and CouchDB to the frontend utilising Ember and plain Javascript.

- Using NodeJS, CouchDB, Postgres Sql, Nginx, Websockets, MQTT, EmberJS, EmberCLI, Mocha, Docker and deploying onto Azure and AWS servers.
- Using Cordova to create mobile versions of the applications to run on both Android and iOS.

Freelance Developer, Impera Media, October 2015 – December 2015
- Ebook editing and production

Freelance Developer, Metropolitan Police / Unisys, May 2015 - September 2015
- Developing next generation of online mapping system (Openmap) used by Metropolitan Police Command and Control centres.
- Using Javascript, JQuery, Knockout, and deployed onto Windows 8.1.
- Utilising Open Street maps and managed using Scrum.
- Utilising Javascript within a JavaFX frame work, which allowed us to run the Javascript as an application.
- Used Ajax to request data from the server, which was then processed in the Javascript to be presented within the Open Layers map.
- Knockout was used to display information and provide interaction that could not be displayed within the map.
- Developed within a Windows environment.

Freelance Developer, Capita SMS, November 2014 - May 2015
- Developing mobile and desktop applications.
- Debugging issues within the Javascript code that were raised within Cucumber and Jenkins tests.
- Applications created in Javascript using Ember, Ember-CLI and hybridised for Android.
- Using Ember to display data retrieved from a remote server using Ajax and present complex forms and interaction to the user.
- Developed within a Linux based environment.

Freelance Developer, Metropolitan Police, October 2013 - October 2014
- Security cleared
- Development of mobile HTML5 applications.
- Applications created using Javascript, JQuery, Underscore, EJS, and Apache Cordova / PhoneGap for deployment to Android, iOS, and Windows Phone 8.
- Use of Google Map API V3 and Open Street Map & Open Layers for mapping purposes.
- Development managed under Scrum & Kanban agile methodologies.
- Lead developer on the Metropolitan Police's new public facing "Online Crime Report" system which allows members of the public to report various types of crime.
- Wrote Java back end for the crime reporting system to replace an old PHP based server.
- Working on In Vehicle Mobile Application to replace current In Vehicle system, using Angular, HTML5, Javascript. Using development tools such as Grunt, Bower, Jasmin, Karma, Node, NPM.
- Prototyped an application using Node.js and MongoDB
- Implementing the In Vehicle Mobile Application System on a portable Windows 8.1 device using .Net & C# to wrap up the Javascript front end. Initially using Cordova, but subsequently using our own software.
- Developed within an Mac OsX environment.

Freelance Developer, Laing O'Rourke, July 2013 - October 2013
- Developed Agile visualisation tool in HTML to replace their current Flash application.
- Prototyped in Node.js with a Postgres SQL back end.
- Developed and completed in C# using .NET 4.5, WEB.API, SQL Server, Javascript & EJS templating.
- Developed within a Windows environment.

Freelance Developer, The Open University, Oct 2011 - April 2013
- Joined the Post Personal Computing project developing Ebook versions of current learning material for the iPad.
- Made extensive use of HTML5, CSS3, Javascript and Canvas to create animated, interactive versions of learning material in ePub 2.5, ePub 3 and iBooks format.
- Re-implemented Flash and Windows applications as HTML5 applications.
- Utilising PhoneGap / Apache Cordova, developed Android and iOS apps to view the HTML5 activities. Developed a custom "downloader" for the Android app which would pull the video and picture resources for the HTML5 application from a remote server and store them locally.
- Helped to develop, maintain and expand the proprietary Javascript library which was the foundation of the development on mobile devices.
- Joined the Wolfson project to develop online science learning resources utilising HTML5, Javascript and CSS3.
- Reverse engineering scientific teaching material originally created in Adobe Flash and recreated them as portable HTML5 / Javascript versions using an Open University Javascript library.
- Developed within an Mac OsX environment

Freelance Developer, Diagnostic Monitoring Systems Limited, Oct 2009 - Sep 2011

- Continuing development of a web based monitoring system for use within power stations, responsible for implementation of requirements. The application was created utilising Javascript, SQL Server and made heavy use of AJAX concepts with a Classic ASP back end for data retrieval.
- SQL Server 2005, SQL Server 2008 Enterprise & SQL Server 2008 Express development. Designing & writing queries and complex stored procedures, optimising stored procedures for speed, implementing indexes and statistics.
- Architect, build and deploy a large VMWare based server farm utilising VMWare VSphere, VM Ware VCenter, VMWare Lab Manager and ESX 4.
- Built a Windows Server 2008 Enterprise based multi-machine SQL Cluster. Built within VMWare Lab Manager utilizing Active Directory, Clustering Services, Clustered Virtual NAS and Clustered SQL Server.
- Set up, deploy and maintain a Subversion version control system.
- Re-architected the web system, converting it from a standard Classic ASP system to a MVC system. Build upon a C# based Web Service backend feeding data to a custom Javascript MVC front end using SOAP and JSON. Replaced the VB.NET graphical chart rendering with a newer custom compact HTML 5 / Canvas / Javascript based system which requires less data to be transmitted.
- Development of near realtime graphical displays for charts and graphs with 10000+ data points in Javascript.
- Developed library for display and data manipulation.
- Utilised the Scrum Agile development methodology.
- Developed within a Windows environment.

Freelance Developer, University of Glasgow, Dec 2008 - October 2009

- Developed modifications and enhancements to the Documentum based EDRMS system, heavy Javascript development and largely consisted of DOM, AJAX and JSON development.
- Bug investigation and repair solution development within the JSP and Java source code of Documentum.
- Developed, updated and maintained custom Javascript plugins for TinyMCE.
- Implementation of a PHP based SMS solution to contact students via JANETtxt and PAGEone.
- Developed within a Windows environment.

Freelance Developer, Diagnostic Monitoring Systems Limited, Mar 2008 - Nov 2008

- Development of a web based monitoring system for use within power stations, responsible for implementation of requirements. The application was created utilising ASP, SQL Server and AJAX.
- Developed within a Windows environment.

Technical Architect / Solutions Architect, Continuity², Apr 2006 - Mar 2008

- Managed a team of 3 developers for the design and development of a large AJAX based Business Continuity Management (BCM) system. Responsible, end to end, for implementation of requirements: From design and development, into UAT, release, marketing requirements and training.
- Researched, developed and implemented a large scale mass calling system utilising SMS for instant emergency information delivery and ISDN / VOIP for voice based messages.
- Designed, developed, implemented, maintained and supported the SQL Server installation utilised by the sites.
- Application built on a software platform of Javascript, JSON, XML, ASP, SQL Server and PHP. Server platform was a mix of Windows Server 2005 and Linux.

Senior Software Consultant / Technical Architect, Content Systems Ltd / Trace All Limited, Feb 2002 - Mar 2006

- Continued development of a content management system.
- Created a number of commercial sites utilising the content management system.
- Developed an administration intranet site for a Scottish based building society.
- Development of a search and administration intranet system for the largest private search firm in Scotland.
- Continued development and support of traceability software for the fishing industry.
- Development of a traceability product for a number of food manufacturers.
- A varied mix of Classic ASP based & AJAX web development and Delphi & VB.Net application development using SQL Server and MYSQL as database back ends.

Senior Software Developer, Upstream Systems Ltd, Jun 2000 - Feb 2002

- Created a website for a large UK based holiday company. This included working closely with the company owner to design the site, coding the dynamic front end, the flexible back end, the CRM system, the e-commerce elements and the holiday booking system.
- Built upon an ASP, VB Script, Javascript and MS SQL platform.

Development Consultant, Pygmalion, Jun 1999 - Jun 2000

Systems Support Engineer, Scottish Daily Express, Oct 1997 - Jun 1999

Software Engineer, Xara Limited, Aug 1996 - Oct 1997

Education

Post Graduate Degree in Multimedia technology, 1996, Glasgow Caledonian University
This course covered the technology behind multimedia, video / audio production, software for developing multimedia applications, website design, visual basic, producing multimedia applications using the technology and Technology & copyright law.

Advanced Diploma in Software Engineering, 1995, Stow College, Glasgow
Systems design, Object Oriented Programming, mathematics, Pascal programming, C, UNIX, hardware technology and maintenance, quality assurance, development lifecycle.

HNC - HND Software Engineering, 1994, Stow College, Glasgow