

Derek Wilson

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Synopsis

I am an excellent software engineer with strong programming and design skills. I have experience and proven ability in many aspects of producing software products from design through implementation, documentation and testing to end-user support.

Software development is a team activity and I appreciate the importance of, and am capable of, integrating into a team. I also understand the need to produce quality products to specification and within budget.

Skills

Programming Technologies (used in the last two years)

Microsoft .NET Framework (v1 to v4), C# and VB.NET - 10 years
Microsoft Visual C++ (Version 1.0 to 6.0 & MFC Version 2.0 to 6.0) – 12 years
NUnit, NCover, PartCover and Rhino Mocks – 3 years
HTML/DHTML/JavaScript for IE 4 to 9, Opera, Chrome and Firefox – 10 years
Microsoft IIS – 10 years
Microsoft SQL Server (2000 to 2008) – 5 years
Oracle (8i, 9i and 10i) – 5 years
Microsoft Enterprise Library – 5 years
Microsoft .NET Compact Framework (v1.0 and v2.0) – 2 years
Microsoft Embedded Visual C++ (Version 3.0 and Version 4.0) – 2 years

Other Programming Technologies

Microsoft Visual Basic (Version 5 and 6)
Microsoft Win32 SDK for Windows Desktop and Mobile Platforms
Codesmith and .NetTiers
NHibernate
SQLite v3
Microsoft Access Version 2.0 and 7.0 and ODBC

Training and Development

ASP.NET Connections, 2008
Mix, 2007
.NET Master Class, Juval Lowy, iDesign, 2006
European Software Conference for the Independent Developer, 2006
TechEd, 2004 and 2005
Enterprise Microsoft.NET Development, Learning Tree, 2002
ASP.NET Connections, 2001
Essential ATL, DevelopMentor, 2000
Introduction to Corporate Tax, PwC 1999
Visual C++ Developer's Conference, 1998

Employment Experience

Jan 2008 – Current, [Swinton Insurance](#), Web Team
6 Great Marlborough Street, Manchester M1 5SW

Swinton Insurance are the leading high street insurance broker in the UK. I work for the web team which is responsible for the internet quote and buy system used by the public, internal sales staff and also aggregator sites such as [comparethemarket.com](#). The quote and buy system is a high volume mission critical system accounting for a significant proportion of the company revenue stream - it can deliver up to 500,000 quotes a day.

Primary technologies: C# ASP.NET, MVC, SQL Server, NUnit, Rhino Mocks, JavaScript, Jasmine, NHibernate

My role is as a **lead developer**. I am responsible for designing technical solutions to satisfy business and compliance needs, with larger pieces of work I produce a design to guide other developer's work. I also attended code reviews for other teams within the group. The development uses **agile practices**, with stand-ups, TDD/BDD development and continuous integration using **CruiseControl**. During the last year we have ported the main web site from **ASP.NET** to **MVC** utilising **IoC** and extended the tests to include the JavaScript using **Jasmine**.

I have also lead the development of a multimillion pound system to handle renewal pricing. Implementing a complex pricing model the system utilised **SQL Server**, **NHibernate**, **IoC** using **Castle Windsor**, and **MVC**.

Jan 2007 – Dec 2009, [PricewaterhouseCoopers](#) UK Indirect Tax Practice,
Abacus Court, 6 Minshull Street, Manchester M1 3ED

PricewaterhouseCoopers are the largest professional services company in the world. I worked for a group which provides professional quality products for the tax practice and for external customers. I worked with a small team within the Tax Practice based in Manchester who provide services and technology solutions to large clients to optimise their indirect tax liability.

Primary technologies: C#, ASP.NET, SQL Server, VB.NET, HTML, NUnit

My role was as a **lead developer**, it was my responsibility to **design technology architectures** that will satisfy the business requirements and fit in with the centrally planned architecture provided by PricewaterhouseCoopers' internal IT organisation and their outsourcing partners for server hosting and other services.

In addition to this I **led a team** to develop and deploy a web solution, using **ASP.NET**, **Enterprise Library**, and **SQL Server**, for use by external clients to enable them to prepare and electronically file VAT100 tax returns with HMRC. I instigated the use of **code generation** and **OR mapping** using **Codesmith** and **.NetTiers**.

I was part of an international team that spends some time each year constructing, documenting and deploying a software development framework to provide developers with a starting point for developing **ASP.NET v2** web sites that are to be hosted by PwC. The framework acts as a bridge between standard technologies such as **ASP.NET**, **Enterprise Library**, **XML**, **XSLT** and cryptography and shows how these technologies can be used within the PwC environment. The framework is used extensively by the vast majority of .NET projects in the UK and the US.

Jan 2001 – Dec 2006, [PricewaterhouseCoopers](#) US IAS Tax Technology Practice,
Abacus Court, 6 Minshull Street, Manchester M1 3ED

Based in Manchester and San Jose I worked for the International Assignment Services (IAS) Practice in San Jose California. We were a small team dedicated to providing services for large multinational clients to facilitate providing a range of financial service where the user base is working on international assignments.

Primary technologies: C#, ASP.NET, ASP, SQL Server, Oracle, VB6, HTML

I was **lead developer**, my role included specifying, designing, constructing, documenting and deploying an **IIS .NET** based web site construction framework that has been used by developers in the US, Europe and India to produce web sites for the IAS practice. The framework provides security services, page layout tools, **Oracle**, **SQL Server** and **XML** data access layers as well as **XSLT** cross browser **HTML/client script** rendering. This framework was first implemented using **IIS/ASP/VB** and then using **Microsoft .NET**.

I also designed and implemented a number of complete web sites where I have taken responsibility to deliver a complete end-to-end solution, for example [GlobalSTAR](#) and [Assignee.com](#). These public sites cater for IAS practice clients, in excess of 150,000 users, and handles 60,000 tax return submissions per year.

Mar 98 – Dec 2000, [PricewaterhouseCoopers](#) UK Corporate Tax Practice,
101 Barbirolli Square, Lower Mosley Street, Manchester M2 3PW

The Corporate Tax Practice is responsible for completing tax returns for large external clients.

Primary technologies: Visual C++, MFC, Win32

My role was as **project manager** and developer for Arena, a spreadsheet based development framework. The product was a large-scale project using **Microsoft Visual C++** and **Visual Basic** as well as third party class libraries. Arena was used to create [PowerTax](#), which is used by the UK Tax practice to process over 90% of UK corporate compliance computations.

Mar 95 – Feb 98, [Andrew Network Products](#),
3rd Floor, The Graftons, Stamford New Road, Altonham.

Andrew Network Products (now [NLynx Systems](#)) is a significant supplier of AS/400 connectivity products. They have an extensive catalogue from emulation software to cabling for both IBM PC and Apple Mac markets.

Primary technologies: Visual C++, MFC, Win32, AS/400

In 1995 Andrew NP were faced with declining sales of their Windows 3.x products. I was employed to **design** and **oversee development** of a **32 bit** product in **Visual C++**, for both **Windows 95** and **Windows NT** to enable Andrew NP to recapture market share. Within 12 months we had produced [ES/95](#) , a product that supplied

terminal and printer emulation for IBM AS/400 systems over a variety of connection methods, Twinax, TCP/IP and SNA Server. In a comparatively small market ES/95 showed strong sales turning over \$2 million a year.

My role within the team was to focus the design to ensure a coherent and consistent product and to implement the more complex components. I was also responsible for all engineering production including foreign language and OEM versions. I monitored and assisted other members of the team, **reported progress** and **identified potential problems and opportunities** to my manager. The development team were responsible for everything from the original concept all the way through to producing the master CD for duplication.

Sep 89 - Feb 95, [The National Computing Centre Limited](#),
Oxford House, Oxford Road, Manchester, M1 7ED.

The NCC is the leading membership organisation in information technology in the UK. The key activities for the company are IT consultancy and development of software products. I was part of the software development team in the Systems Engineering Division.

Between June '93 and Feb '95 I was development team leader for [CentreLink](#) for Windows, a **client/server** data retrieval tool. This product enables client PC's running **Windows** to access data on mainframe and UNIX hosts via a variety of communication protocols from TCP/IP and IPX ODI to VT100. Prior to this I was development team leader for ASSET, a multi-user CASE (SSADM) support tool.

Jan 87 - Aug 89, The Rigby Group PLC,
Clifton Technology Park, Wynne Ave, Clifton, Manchester.

Initially I was employed to develop and refine a **GUI multimedia** Computer Based Training Authoring Tool for IBM PC computers under GEM/MSDOS. As the project matured I was responsible for **supervising contractors** and being team leader to a small development team.

Other Experience

Jan 2010 – current, [PodcastUtilities](#)

PodcastUtilities is an open source podcast downloader and synchroniser. I work on the project with a colleague in my spare time.

Primary technologies: C#, Mercurial, NUnit, Rhino Mocks, PartCover

This project is not intended to be a serious competitor to iTunes however it may be useful to a niche market. It is intended as a learning exercise to get familiar with using **Mercurial** and **distributed software development**. An open source project of this nature is an excellent opportunity to **collaborate** and **review** each others code as well as giving any prospective employer an opportunity to see the quality of the code I can produce.

Jan 2003 – Dec 2007, [Lightbulb Software](#),

Lightbulb software is a company run by an ex colleague from my time at the NCC. We decided to work together in our spare time to produce a product for the **Windows Mobile platform**.

Primary technologies: C#, .NET Compact Framework, ASP.NET, WebServices, Embedded C++

The project was interesting as it gave me an opportunity to work with **different technologies** than I was used to working at PwC while still **developing software in a team environment**.

What began as an evenings and weekend project grew until we **launched a commercial (shareware) product**, [Worldolio](#). This world clock style application made use of **native C++ Win32** code for a responsive user interface and a **.NET Compact Framework** client to download weather forecast data from a custom ASP.NET web service using a partially connected model.

[Worldolio](#) has been downloaded over 1,000 times. It is a strong indication of the quality of the software that is has a sales conversion rate of approaching 10%, well above the average for shareware and has had less than 10 support emails over the entire lifetime of the product.

Education/Qualifications

Oct 81 - May 85, Manchester Polytechnic, Oxford Road, Manchester, M1 5GD.

BSc (Hons) Combined Studies (2nd Class 1st Division) Computer Science/Chemistry

Interests

Bridge, Badminton, Cricket, Cycling, Reading and playing with my TiVo