

## Christopher Bell

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A highly skilled consultant analyst/programmer with over 10 years commercial experience in developing large scale desktop applications and database backed Internet solutions. A team player confident with taking responsibility for himself and others. An enthusiastic Agile developer who is flexible and committed with excellent communication skills. Full EU driving license, with the ability to work anywhere within the European Union.

### Skills and Technologies

#### **.NET Framework 2.0/3.0/3.5/4.0**

C#  
VB.NET  
Web Services  
LINQ  
Entity Framework  
WCF (Windows Communication Foundation)  
ADO.NET  
Enterprise Library 4.1  
CSLA.NET (3.0)  
Compact Framework

#### **Web Development**

ASP.NET  
MVC Framework (1.0 / 2.0)  
Silverlight  
XHTML  
Javascript  
CSS  
AJAX/JSON  
jQuery/JQuery UI  
xVal  
Telerik ASP.NET Ajax Controls

#### **Microsoft SQL Server 2005/2008**

Schema Design and Management  
T-SQL Stored Procedures  
Performance Tuning  
Replication  
Reporting Services  
Integration Services  
SQL Server CE/Lite

#### **Microsoft Windows Server**

Network Load Balancing  
COM+  
IIS6 and 7  
Clustering Services

#### **Development Tools**

Visual Studio 2005/2008/2010  
MSBuild  
MSTest  
NUnit  
VisualSVN  
TortoiseSVN  
Eclipse  
Team Foundation Server  
Bugzilla  
Mantis  
Windows Mobile 5/6 SDK  
CodeSmith

#### **XML**

XSLT  
XPath  
XSD Schemas

#### **Business Analysis & Design**

UML  
Select Enterprise  
Enterprise Architecture

#### **Other Skills**

Oracle 6-10g  
MySQL 5  
SQLite  
Visual Basic 5 and 6  
Java Servlets/JSP  
PHP  
Embedded C++  
Visual C++ (MFC/ATL)  
Perl & Bash Scripting  
Unix System Administration  
FusionCharts Web reporting (MIS)



## Employment History

February 2011 - To Date

### **Senior Developer - TDX Group Ltd. - Nottingham**

PLATO Project, responsible for pre-product (Demo-) system analysis and development of User Stories. Moving to a Phased delivery model-, supporting requirements planning of 40+ business processes and approximately 50% of 400+ requirements.

- C#/ASP.NET/JQuery/JSON/LINQ.
- A major redesign to TDX's PLATO system used to service 8 of 10 largest banks-/ card and 5 of 10 largest energy companies in the UK.
- Agile development methodology.

May 2010 – December 2010

### **Senior Developer – Retail Manager Solutions Ltd. – Minstead**

Leading the development for Next's marketing database as well as the rebranding of Comet's live systems.

- C#/ASP.NET/JQuery/LINQ.
- Integration of Next's marketing database within the Retail Manager product suite.
- Re-branding of Comet's 'The Word' site, based around initial client designs and requirements.
- Development of Comet e-learning widget, providing managerial overview of Comet's staff training system.

February 2010 – April 2010

### **Senior Architect/Developer - BBC Worldwide – London**

Development of the Doctor Who Digital Asset Management system on behalf of BBC Worldwide. The solution provides an online asset management system for the latest season of Doctor Who; and all future seasons, allowing BBC territories to access all of the digital assets under embargo at the relevant times.

- C#/MVC/JQuery/Silverlight 3/Entity Framework/LINQ.
- Control of overall systems architecture.
- SQL 2008 back end database development.
- Development of MVC based asset management system, incorporating embargoed data and user management.
- Development of 'chunked' Silverlight based upload component, capable of > 2TB uploads, with retry and hash validation of data.

November 2009 – January 2010

### **Senior Architect/Developer: Daisy Green Events Ltd. – Newcastle upon Tyne**

Architecture and development of the new Daisy Green Events website, produced using ASP.NET MVC with an Entity Framework/MySQL backend database. The site is designed to provide a management and booking system for events run by the company.

- C#/MVC/JQuery/Entity Framework/LINQ.
- Control of overall architecture of the system.
- Implementation of an MVC based content management (CMS) system to handle pseudo static web pages.
- Implementation of administrative and end user functionality for the management of events and their associated bookings and payments.
- Integration with Paypal as a payment gateway to the events site.

August 2009 – October 2009

### **Senior Developer: Grass Roots DMS Ltd. - Fleet/Marlow**

Developing the new System 3 solution for Delegate Registration and Management for Microsofts Convergence conferences.

- C#/MVC/Linq to SQL/VB.NET/CSLA.
- Development of administration and reporting suite using MVC and the FusionCharts Flash reporting suite.
- Integration of the Bouncy Castle cryptographic libraries to enable asymmetric encryption of credit card details using PGP.
- Implementation of encrypted query strings and encrypted route value dictionaries within the MVC application to assist with PCI compliance.
- Barcode generation for confirmation emails using GDI+
- Development of PCI compliant payment gateway and hotel booking interface using VB.NET and CSLA in a Web Forms environment.

August 2008 – July 2009

**Senior Web Developer: Triangle Group Ltd. / Retail Manager Solutions Ltd. - Minstead**

Working as part of the Retail Manager .NET team, developing and deploying a web based retail solution for managing content, tasks and other administration functions across multi-national retail chains such as Carpetright, Hobbycraft, Comet and Wilkinsons.

- C#/ASP.NET/JQuery/Entity Framework.
- Re-architecting and developing the RM-Lite product, implementing standard design patterns within the existing architecture to provide future extensibility and transparency of code.
- Team leading the Carpetright development project. On taking over this project the bug list was reduced from 500 category 1~3 errors to 0 within 2 months. Completion of timesheet tracking module which integrated with external payroll systems.
- Senior developer on the Wilkinsons Trading Manager development project, producing a web based management tool for project deployments/critical paths for the customer. Analysis of customer business requirements within technical and functional meetings. Usage of LINQ and the Entity Framework in producing a standardised data access layer (DAL). Integration of Telerik controls to provide improved user interaction, especially with the RadEditor control.

February 2007 – June 2008

**Senior Developer : iMeta Ltd. - Southampton**

Working as part of the MIAB (M-in-a-Box) Team developing and supporting an integrated mobile phone Top-up and Reward system developed on a .NET 3.0 platform.

- Development of connector code between Telcos and MIAB, utilising WCF (Windows Communication Foundation) endpoints within an asynchronous http handler under IIS 6.
- Technical development on multi threaded high performance distributed web services.
- Optimisation of large scale SQL 2005 databases, performance tuning stored procedures and implementation of replication strategies for disaster recovery.
- Enhancement of the systems Management Studio Smart Client application.
- Employment of an Agile based development methodology.

Working as part of the MMT team developing and supporting domestic and international money transfer systems.

- Team leader for the Italian Gift Cards project, developing a solution for the Auchan retail group, using a WCF Service along with an AJAX enabled customer support website.

- Integration of the existing MMT interface into Standard Chartered Bank (SCB)'s IBM MQ Series systems.
- Development on Windows Workflow based solution for SCB's international monetary transfer system.
- Employment of an Agile based development methodology.

September 2006 – January 2007

**Senior Developer : ATDI Ltd. - Crawley**

Developing an internal component written in C# (.NET 2.0) for calculating radio spectrum interference on behalf of the MoD.

- UML 2.0 design and analysis for documentation leading to NUnit test modules. Integration of existing Tatuk GIS components for manipulating geo-spatial data.
- Managed/Unmanaged C++ (CLI) development to incorporate existing algorithmic libraries with minimal performance degradation including integration of legacy Fortran modules.
- Software profiling using the NProf toolset to improve the ability to optimise code.
- Test Driven Development (TDD) through Extreme Programming (XP) principles.

March 2006 – September 2006

**Senior Developer : ETS/ACAS – WRDC Logsys - Wokingham**

Team Leader for the cross platform Common Services team. Developing Java applications as part of the web based eFirst Process Management solution as well as .NET desktop and web applications for the client desktop systems.

- Development of a C# SMTP server for Zetafax system integration, handling communications failures through the Fax gateway as well as manipulation of fax images.
- Development of a web based batch printing system, incorporating web application, web service and windows service to handle the production of print packages as PDF documents.
- Analysis and documentation of existing Java packages prior to bug fixing work.
- Maintenance and integration of Perl based Context Sensitive Help system into the eFirst application.
- Database backend development with Oracle 10g/Oracle RAC.

March 2005 – November 2005

**Senior Developer : SBSH Software – Israel [Remote Working]**

Redevelopment of SBSH's list management application (Handy List now renamed MyList) for the Pocket PC.

- Embedded Visual C++ development, utilising MFC and custom owner drawn controls, for both VGA and QVGA handhelds running PPC2002 through to Windows Mobile 5 and Smartphone.
- Development of a Windows desktop client to interact via an ActiveSync conduit to the handheld device.

November 2003 – May 2004

**Senior Developer : Filmnight – London**

Analysis and development for Filmnight, a DVD Rental and Retail company, integrating legacy systems and UNIX services with .NET. Leading the internal IT team through the launch of the company as well as continued support.

- Maintenance of Java based rental website. Migration of the existing Java Servlet/JSP based website to ASP.NET 1.1 (C#).
- Development of e-PoS systems in C# for use within shops across the UK.

- Maintenance of PHP based availability displays within the shops.
- Design and development of the synchronisation software for data transmission between the various shop sites and head office.

March 2002 – November 2003

**Senior Consultant : Jester Software Engineering Ltd. - Alton**

Managing a team of developers producing desktop and web based application solutions as well as interacting with the customer through all phases of the software development life cycle (SDLC).

- **Barkers Norman Broadbent** - Development and implementation of an n-tiered client/server CRM solution produced in C#.NET for Barkers Norman-Broadbent recruitment advertising. Currently the software is in use by over 600 members of staff throughout the UK. Design of the system architecture and management of the development team as well as technical prototyping.
- **ODPM** – Application development in conjunction with the Office of the Deputy Prime Minister producing a .NET/MS-SQL Server 2005 based client management solution for the Governments Supporting People initiative.
- **Lloyds/TSB** - Team leading development of the document management solution, primarily developed using C++ on a Windows platform and integrating with Documentum and Staffware Process Definer.
- **Bank of Ireland** – Staffware consultancy on behalf of Berkeley Software for the Bank of Ireland, solving existing issues within the Visual Basic components associated with their process management solution.
- ASP .NET web site development for both intranets and extranets for various clients including the Highways Agency (.NET 1.1/C#), Learning Skills Council (.NET 1.1/C#), HBOS group (.NET 1/C#), Royal Bank of Scotland and the Central Office of Information (COI).
- Integration of Microsoft Server systems into client IT infrastructure including Exchange 2000 Server, Windows 2003 Server (AD) and SQL Server 2000/2005.

September 1998 - January 2002

**Senior Developer : VITY - York**

Developing international multi-tiered systems for the railway industry using Visual Basic/Visual C++ with an Oracle 7/8i back-end.

- Team Leader developing on behalf of Norwegian State Railways (NSB) for their ultra short-term planning systems, integrating C++ visual displays of real-time train data.
- Team Leader for the technical solutions team, investigating new approaches to development, specifically with Visual Basic 6 and XML.
- Deputy Team Leader on Railtrack's Timetabling and Simulations projects, working alongside Railtrack Business Information Systems.
- Lead developer for the company's component based development project. Involved with the joint development of a Visual Basic/Java based platforming/communications system.
- Technical coding using COM/DCOM and XML within multi-tiered projects.
- Structured design using Select Perspective for Use Case analysis, leading to technical specifications and unit test plans.

## Education

### **2008 - Microsoft Certified Professional**

070-315 - Developing and Implementing Web Applications with Microsoft Visual C# .NET and Microsoft Visual Studio .NET.

### **1995-1998 - University Of York**

BEng (Hons) Computer Science

### **1991-1995 - Duchess's Co High School, Alnwick**

3 A-Levels Grade B and above.

9 GCSE's Grade C and above.

RSA Computer Literacy and Information Technology

### **Professional Memberships**

Sun Developer Network

Institute of Linux Professionals

Oracle Development Partner Network [UK]

Visual Basic Users Group [UK]

nxtGen User Group [UK]

### **Courses Attended**

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|------|--|
| 2009 | Programming Windows Presentation Foundation & Silverlight with C# 2008 - InnerWorkings                                       |
| 2008 | Silverlight Assault Course - Alterian  |
| 2002 | Introduction to Staffware Process Definer - Staffware PLC  |
| 2001 | Java Fundamentals - Focus Training Group<br>Visual C++: Application Development with MFC - Parity Training                   |
| 2000 | VBITS London - Microsoft   |
| 1999 | The Select Perspective to Component Based Development - Select Group   |
| 1998 | Visual Basic: Microsoft Fundamentals - Comtec Computer Training<br>Office Application Development - Comtec Computer Training |