



ICS DreamTeam Member No 2270 CV

Profile:

- An accomplished software engineer with 12 year’s enterprise level development experience, gained within a varied number of business areas, from the media sector, to insurance and investment banking.
- Expertise in object-orientated design and analysis with extensive experience in the full life cycle of the software design process, including requirements definition, prototyping, proof of concept, design, interface implementation, testing, maintenance and documentation.
- A thorough understanding of the .Net framework and associated technologies, including several years experience using both C# and VB.Net through versions 1.0 beta to Version 3.5 and beyond, in both web and windows platforms. Most recently he spent a great deal of time using WPF and Silverlight, and has an interest in Microsoft Surface and Touch screen technologies. He was also adept in SOA technologies, making use of WCF and he has been following with interest the emerging technologies of Azure and ‘Dublin’.
- Extensive knowledge of a number of technologies and languages, with strong web, win form, middle tier and data access component development skills. He has recently taken a keen interest in broadening his knowledge of more programming languages and paradigms, with a particular emphasis in functional programming and dynamic languages, having a special interest in F# and Iron Python.
- Experience with using agile development techniques including extreme programming and SCRUM. This includes test driven development practices, pair programming and continuous integration.
- A keen interest in and beta tester of next gen applications, OS and development tools, including Visual Studio 2010, Windows 7 and Windows Server 2008 R2.
- Excellent RDBMS skills, with many years experience using both SQL Server and Oracle, up to and the most current versions.
- Strong management and leadership skills, with proven proficiency in leading and mentoring individuals to maximise levels of productivity, while forming cohesive and productive team environments.
- Knowledge of and adherence to formal design patterns and practices and to enterprise architecture guidelines.
- Approachable and outgoing personality, being very much a team player, whether leading or contributing.

Technical Skills Summary:

Languages and Framework:

Skills	Years
• C# (1.0 – 4.0)	8
• VB.Net	7
• ASP.Net	7+
• ASP	5
• C++	2
• .Net Framework (1.0 -4.0)	7.5
• F#	0.5
• Visual Basic (4.0-6.0)	8
• VBA	7



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- VBScript 7
- JavaScript 8+
- WPF 3
- WCF and WF 2
- Iron Python 0.5

Web and XML:

- HTML/DHTML 8+
- XML, XSLT 7
- XSD, Schema 6
- AJAX, ASP MVC 2
- Silverlight 1
- SOAP 5
- Web Services 6
- XPath 6
- WSDL 5

RDBMS and Related:

- SQL Server (6.5–2008) 9
- MS Access 4
- T-SQL 10
- ADO.Net 7
- SISS, SSRS 1.5
- MS Office 12
- MS Visual Source Safe 7
- TOAD 2
- Crystal Reports 5
- MS FXCop 4
- IIS (4.0 – 7.0) 7
- Perforce 2
- Team Foundation Server 2.5
- Expression Blend (1.0 -3.0) 2.5

Software and Tools:

- Visual Studio 4.0-2010 12
- MS Visio 6
- Rational Clear Case 1.5
- XmlSpy 6
- NUnit 5.5
- BizTalk Server (2002) 1
- Nant / Cruise Control 4.5
- MS Build 4
- Harvest 1

Patterns, Practices and Concepts:

- Agile / XP / SCRUM 5.5
- Design Patterns 7.5
- Mutli-Threaded Apps 5.5
- Test driven development 5.5
- Asynchronous and Parallel Computing 5.5
- OOA / OOD 10
- UML 8
- Remoting 3
- COM/COM+/Interop 8
- SOA 4.5

Work Experience:

From – To: June 2009 – January 2010

Role Title: Senior Developer

Description: He was contracted at Barclays Capital to work as part of a large team developing a middle office accounting tool called MOTIF which was designed to allow business users manage and view Balance sheets, P&L, and make Adjustments. He was contracted to work on the Adjustments use case, and was involved in developing the UI and middle tiers of that use case. This involved developing screens for allowing users to make Book, Position and Trade level adjustments and for making amortisations and allocations too. The UI was a C# windows application written using WPF, making use of the Composite Application Library (Prism) and the MVVM design pattern. The architecture of the application was based on a grid system and uses SOA to expose a set of services running on Tibco Business Engine. The data tier consisted of an Oracle 11g database.

Accomplishments include:

- Designed and developed a number of WPF controls (views) for the Adjustments use case.
- Developed and made use of a number of asynchronous programming libraries making use of the APM model to allow for a continuously responsive UI by ensuring all non-UI calls occurred on a background thread.
- Wrote a number of shared library extension methods, particularly for enumerable and enumeration types.
- Wrote a number of services using WCF for the retrieval of static data from a Tibco BE cache.

Skills Used: C# (3.0), Oracle 11g, Tibco BE, WPF, WCF Services, XML Serialisation Dependency injection (Unity), MVVM pattern, Expression Blend, NUnit, Nant, CAL (PRISM), Visual Studio 2008

Customer: Barclays Capital – Investment Banking

From – To: November 2006 – June 2009

Role Title: Analyst Programmer

Description: He was initially contracted to work on a web based fund management project, written using C# and ASP.Net, with an Oracle 10g back-end. He worked on this project for four months, and in that time made a number of enhancements and bug fixes, including making use of Ajax and web services.

- After that initial four months he was asked to join a new project team to develop a reconciliation and trade capture application called DSP (Derivate Supplemental Processing). The decision to develop the application as a smart client app using WPF had already been taken, but he was to have complete freedom to design and write the application as he saw fit. The first phase of the project was to deliver reconciliation and reporting tool to aid in the day to day operations of the banks middle office team. The aim was to allow the team to perform a three way position and price reconciliation between the banks client's, the client's brokers and the banks systems for a variety of instruments including CFD's and short sales. The second, and what was to become the most important phase, was to extend the application to manage the semi-STP processing of trade positions for one of the bank's main clients. Later the app was extended to handle further clients too. The trade capture phase of the project involved taking PGP encrypted feeds from a client and processing accordingly through DSP and then delivering those trades into the bank's core systems. This was

previously a manual process, and as such was time consuming and prone to error. The aim of the project was to automate wherever possible this processing. Much of the processing was achieved through the use of SQL Server 2005 SSIS packages. The UI allowed for the monitoring, data enhancement and reporting of the incoming trades and for the manual input to trade data for contingency purposes. The app was designed from the outset to handle multiple clients and a variety of OTC instrument types including IRS, TRS and CDS swaps. The final phase of the development included rolling out the application to be used to handle multiple clients, meaning that the application was adopted for use in both London and New York.

- The application consists of a WPF smart client written using C#, a set of WCF services on the application tier and a SQL Server database back end. The first release of the UI made use of extensions to the Composite Application Block, allowing for a WPF based app. Later the UI was re-engineered to use the Composite Application Library (Prism) in order to reduce the overhead involved in using CAB, and making use of its native support for WPF and dependency injection via Unity. However rather than using the presenter model inherent in this library, he instead opted to use the Model-View-ViewModel pattern wherever possible. Using WPF for the UI allowed me to deliver a rich, interactive user experience, making use of subtle transitions and effects, and to generate and print reports using XPS.

Accomplishments include:

- Complete design and architecture of a WPF based reconciliation and trade capture application.
- Facilitated changes to CAB to allow for a pure WPF UI, later migrating to the CAL (Prism).
- Successful release of application to business through two iterations, with ongoing enhancements.
- Made extensive use of asynchronous programming techniques to allow for a sleek and snappy UI.
- Designed a number of reusable custom controls for use in WPF using Expression Blend and Visual Studio.
- Used the latest programming techniques where applicable, making use LINQ, lambda expressions and extension methods.
- Wrote a number of WCF services to deliver business data entities from the database to the front-end, where possible caching static data, improving the responsiveness of the application.
- Set up continuous integration builds using TFS and deployment through Click-Once.
- Migrated a number of excel fund management spreadsheet based apps to an ASP.Net intranet application.

Skills Used: C# (2.0, 3.0), Oracle 9i, 10g, SQL Server (2005, 2008), ASP.Net (2.0, 3.0, 3.5) + AJAX, HTML, JavaScript, WPF, Dependency injection (Unity), Windows Services, Web Services, WCF, Excel, VBA, MS Build, Cruise Control, Team Foundation Server, VSS, Enterprise Library 3.1, 4.1, IIS 5.1, 6.0, Xml Serialisation Visual Studio 2005, 2008, Expression Blend, SDLC, Scrum NUnit, Nant, CAB, CAL (PRISM), MVVM pattern

Customer: Bank of New York Mellon – Investment Banking

From – To: January 2006 – November 2006

Role Title: Analyst Programmer

Description: A contract maintaining and extending an insurance quote, rating and policy issuing system called Beazley Trade for a large and respected Lloyds of London underwriter. Working alongside many accomplished developers, including a

number of Microsoft MVPs. Based upon architecture of a C#, ASP.Net front end, with a middle tier of C# objects and a SQL Server 2005 back end. Primarily working in the marine team, developing the UK and US marine insurance products, the system was developed using agile techniques, primarily SCRUM.

Accomplishments include:

- Redesigned a number of key screens, making use of ASP.Net AJAX to improve the performance and usability of a key step of the application.
- Involved in the planned migration of the application from version 1.1 of the .Net framework to version 2.0.
- Developed a prototype excel application using VSTO and SQL Server express to fulfil the needs of a small team, storing serialised objects as XML in the database.
- Wrote a number of SQL stored procedures, improving the performance of some existing scripts.
- Scripted a number of cruise control scripts to allow for continuous integration and daily builds, including writing some custom NAnt tasks making use of Robocopy and a Perforce labeller.
- Helped extend and maintain a number of excel spreadsheets used by the business for making risk and quotation decisions.

Skills Used: C# (1.1 – 2.0), SQL Server 2005, Xml Serialisation, ASP.Net (1.1 – 2.0), HTML, JavaScript, Enterprise Library 1.0 – 3.0, ASP.Net AJAX, Windows Services, Web Services, NUnit, NAnt, Cruise Control, IIS 6.0, Perforce, VSS Excel (inc Macros), VBA

Customer: Beazley Furlonge - Insurance

From – To: January 2005 – December 2005

Role Title: Analyst Programmer

Description: A contract working for a consultancy, Edenbrook, to migrate and extend a management system for BUPA. The project started with the migration of a VB6 windows application to a .Net windows application, and then to refactor and extend the functionality of the application. The architecture of the new application was a WinForms front end writing using VB.Net and a middle tier of business and data access components written in C#, passing typed data sets back to the front end via web services. The data store was an Oracle 9i database. The project used agile techniques, using Nant for local builds, with NUnit tests for all middle tier business objects, and continuous build integration using a Draco build server.

Accomplishments include:

- Involved in the successful migration of a legacy VB6 application to a .net application.
- Worked on a number of different aspects of the new application including front end design, business objects and data access components.
- Wrote a large number of web services and typed datasets for the transport of data across the layers.
- Developed a number of custom windows controls and development tools to aid the productivity of the team including tools for automated dataset and DAL generation.
- Lead a small team of developers in writing an external web service interface into the application to be consumed by third party clients, liaising with those clients in the development of a java based web application.

Skills Used: C# (1.1, 2.0), VB.Net (1.1, 2.0), Oracle 9i, Typed Datasets, Win Forms (1.1, 2.0), Custom Controls, Enterprise Library 1.0, NUnit, NAnt, Draco, FXCop, Windows Services, Web Services, WSE2.0, MKS,VB and COM+, Xml Serialisation

Customer: BUPA (via Edenbrook) – Medical Insurance

From – To: November 2004 – January 2005

Role Title: Software Developer

Description: A short term contract to redesign and refactor a number of elements in the Teletext Holidays web site to enable the holidays search functionality from within third party web sites by virtue of using Iframes and/or web services. This entailed redeveloping a number of existing user controls to allow for the extensive configuration of the controls on a per third client basis. This was achieved using a configuration management block, which was redesigned, to allow for fine grain control of the configuration settings by the company. This also included the development of different XSLT files for allowing the custom formatting of xml data feeds from an SQL Server database for each client.

Accomplishments include:

- Wrote a number of web services to allow for the transfer of search results via xml.
- Reworking of the configuration management block.
- Redevelopment of custom controls to allow for per client configuration.
- Maintenance of existing systems including COM+ and ASP.Net components.

Skills Used: C# (1.1), SQL Server 2000, Typed Datasets, ASP.Net (1.1), Custom Controls, IIS 5.0 – 6.0, NUnit, XML, XSLT, Web Services, VSS, VB and COM+

Customer: Teletext Ltd - Media

From – To: May 2004 – November 2004

Role Title: Analyst Programmer

Description: A contract to develop version 2.0 of a web application for Microsoft called Advisor. This is an application that sits on the members' cluster of the Microsoft domain, and is a site that allows enterprise customers and partners to liaise with each other and with Microsoft. AKQA is a MS Certified Partner new media company with a number of high profile clients, with Microsoft being one of their largest. MS Advisor 2.0 is a new version of a web application with a number of areas of functionality, including allowing customers to view upcoming and attends Live Meetings, ask questions of MS experts, view their effective licensing position (ELP), view upcoming product releases, and a number of other tools.

He has been involved in the design and development of this web application and the admin tools to go into supporting this site.

Accomplishments include:

- Designed, developed and delivered a web application using a Microsoft framework called the MNP framework. This framework allows for the standardised look and feel across Microsoft web sites.
- The main areas of functionality he was responsible for include the development of a system to allow for the creation of MS Live Meetings using a SOAP API. He was also involved in the development of an inbox system that allows for the displaying of various system alerts, event notifications, Live Meeting requests, question responses and others.
- Developed a personalisation infrastructure within the MNP framework to allow for customised menus and content based upon a user key determined by various group memberships.
- Developed a number of tools to facilitate the administration of the web application. These include a multi-threaded windows forms application for parsing the XML content of the site to then allow for the efficient indexing of that content. This also included a Windows service with a file system watcher that automatically re-indexed new or changed xml content as it happened.

- Involved in the design and writing of NUnit tests, and Nant scripts for continuous builds.
- Skills Used: C# (1.1), SQL Server 2000, 2005 (Beta), IIS 5.0 – 6.0, ASP.Net (1.1), HTML, JavaScript, Ent Library, Application Blocks, Win Forms (1.1), Windows Services, Web Services, NUnit, NAnt, Cruise Control, VSS, XML, XSLT, XPath
- Customer: AKQA - Media
- From – To: May 2003 – May 2004
- Role Title: Analyst Programmer
- Description: A contract to develop a File Share tool to allow the creation and management of shares across the enterprise, covering a number of domains throughout the global network of the company. The tool also included a workflow component that allowed users to request access to file shares, and for those requests to be processed by authorised administrators of the system. The application was written entirely using .Net and involved gaining expertise in many concepts, systems and services, including Active Directory, Serviced Components, Typed Datasets, Remoting, Windows Security, Folder security (ACE's and ACL's), and custom .Net controls.
- Accomplishments include:
- Designed, developed and delivered an enterprise tool for the creation of file shares on any file server in any domain within the company.
 - Developed a number of generic reusable .Net components, including data access, configuration management, cache management, active directory management, Win32 security, file system management and mailing components. All of these components were signed and registered in the GAC and a number had to be designed to run as serviced components running under COM+.
 - Developed a number of remoting objects, that were to be used, but were later discarded due to a change in application design.
 - Instrumental in the adoption of C# as the development language of choice within the team over VB.Net, with the result that the final product was 90% written using C#.
 - Gained knowledge and experience of Oracle 9i, including the creation of namespaces, schemas and packages, and the use of SQL Plus.
 - Designed and developed a number of custom reusable .Net web controls that contributed to the improved productivity of the team.
 - Built deployment packages to automate the installation, COM+ registration, GAC registration and event log registration of components and web sites.
- Skills Used: C# (1.1), VB.Net (1.1), Oracle 9i, SQL Server 2000, IIS 5.0 – 6.0, ASP.Net (1.1), HTML, JavaScript, AJAX, Application Blocks, Active Directory, Web Services, COM Interop, XML, XSLT, XPath, Excel (inc macros and VBA), Serviced Components, VSS
- Customer: Bechtel Limited – Civil Engineering
- From – To: February 2003 – May 2003
- Role Title: .Net Developer
- Description: A contract where he successfully developed an intranet based email system that allowed administrators to write custom messages, select subscribers, add attachments and schedule the time of release of mail messages to be sent to subscribers of various financial websites and publications using SMTP. This was a .Net web application written using C#, with a SQL Server database and using a third party email component, ASPNetEmail.
- Skills Used: C# (1.0, 1.1), SQL Server 2000, IIS 5.0, ASP.Net (1.0, 1.1), HTML, JavaScript, Multi Threading, VSS, Web Services, XML, XSTL
- Customer: Incisive Media – Media, Accountancy journals

From – To: January 2003 - February 2003
Role Title: Analyst Programmer
Description: A short contract updating a number of their publication web sites to use a different ad server. As these sites use a number of different content management strategies, this involved updating pages using ASP, JavaScript, XML and SQL Server.
Skills Used: ASP (3.0), SQL Server 2000, IIS 5.0, XML, XSLT, HTML, JavaScript, VSS.
Customer: Reed Business Information

From – To: February 2002 – November 2002
Role Title: Analyst Programmer
Description: He was contracted by ISSL, a subsidiary of London Underground, to develop and maintain a number of internal projects, and soon became a key member of a small development team that established early into the contract.
Accomplishments include:

- Responsible for the design, development and guardianship of ISSL's intranet, supervising publishers within the various departments of the business.
- The design, build and set up of a small development network involving the building Windows 2000 servers (Domain Controllers, DNS Servers, Web Servers, SQL Servers and an ISA Server) and creation of the network infrastructure.
- Implemented a number of development standards and coding practices that would become the standards used throughout the development team and the business.
- Assessed and conducted interviews of a number of potential candidates for development roles within the team as they arose.
- Assisted in the progress of a number of ongoing projects, mainly based upon various asset registers written using various technologies including MS Access, and ASP with SQL Server.
- The analysis and design of a project to consolidate a number of different asset registers into one central system, to be built using .Net and SQL Server. This including some pre-development of some common key components for the system, written using C#

Skills Used: C# (1.0), SQL Server 7.0, 2000, IIS 5.0, ASP(3.0), ASP.Net (1.0), HTML, JavaScript, Visual Basic 6.0, COM+, Excel macros, VBA and VBScript, XML, XSTL, VSS
Customer: ISSL (now MetroNet) - Transport

From – To: August 1999 – February 2002
Role Title: Senior Systems Developer
Description: A permanent position in a leading IT recruitment company, he was responsible for the analysis, design and development of a large number of internal systems and internal and external websites. He was a key member of the development team responsible for initiating and overseeing projects, managing and motivating junior developers and influencing the choice of technologies and methodologies.

Accomplishments include:

- Developed a web site for allowing graduates to register CV's and search for jobs online.
- Involved in the development of the company website, including registration of CV's, online job searches, and a CMS system to manage the website.
- Designed and developed an intranet based application to allow recruiters to post and manage vacancies to the Elan web site, and to a number of

different job boards and web sites. This initially involved posting XML documents via SOAP, and using XSLT to display those documents as web pages. Just before leaving, work was in progress to rewrite the system using .Net, with plans to post the XML documents using Web Services.

- Developed and maintained a number of generic COM+ components written using VB used by a number of systems within the company.
- Designed and maintained a number of SQL Server databases, gaining an in-depth knowledge and experience of SQL Server administration, and a high proficiency in TSQL.
- Successfully designed and developed, within schedule, a web based middle office system that allowed for the recording of contractor details, timesheets and payments, with the system integrating with a number of third party products. Extensive use of BizTalk server 2000 was made to orchestrate the different processes of the application and aggregate the data from different data sources.
- Managed and mentored a number of junior developers, who have since gone on to become successful and able developers.

Skills Used: ASP 2.0, 3.0 and .Net 1.0 (Beta), SQL Server 7.0, 2000, IIS 4.0, 5.0
C# and VB.Net # 1.0 (Beta), HTML, JavaScript, BizTalk Server 2000/2002
VSS, COM, MTS and COM+, XML, XSTL, Visual Basic 6.0, VBA, VBScript, Crystal Reports

Customer: Elan Computing - IT Recruitment

From – To: July 1997 – August 1999

Role Title: Software Engineer

Description: A permanent position in a taxation software house, developing and maintaining a personal taxation win app for the completion of self-assessment returns (SA100), developed using VB (4.0-6.0) and C++. Included the writing of a new pension planner component and numerous windows forms and controls.

Skills Used: Visual Basic 4.0 – 6.0, SQL Server 6.5, Oracle, C++ (5.0, 6.0), Crystal Reports, Excel

Customer: Financial Data Systems - Taxation Software

Education:

- BSc (Hons) Applied Biology (Molecular Immunology) – Upper Second
- A Level: Biology, Physics & Mathematics (Pure and Applied)
- 8 O Levels, including Maths, English, Chemistry, Physics, and Biology