

Ian Nelson

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- Software Architect, Craftsman and Developer with 12 years' experience across the full product lifecycle.
- Strong proven skills in designing database schemas, domain object models and application APIs.
- ALT.Net Practitioner – Passionate about designing maintainable, loosely-coupled OO architectures.
- Effective client-facing skills; has led analysis, design and development of high-profile projects.
- Microsoft Certified – Professional Developer (Enterprise Apps), Tech. Specialist in SQL Server 2005, BI.

Key Current Technical Skills

- C# 1.0 – 4.0, LINQ
- .NET Framework 1.0 – 4.0
- ASP.NET, MVC2, Monorail
- Web Services, WCF, SOA
- xHTML, jQuery, CSS
- Workflow Foundation
- SQL Server 7.0 – 2008
- SSRS, SSIS, SSAS
- Oracle 8i – 10g
- NHibernate, NHProf
- OOP, Design Patterns, UML
- Database Design, Tuning
- Team Foundation Server
- TDD (NUnit, xUnit)
- Mocking (Moq, Rhino Mocks)
- DI/IOC (Castle Windsor)
- Continuous Integration
- Agile Methods (XP, SCRUM)

Employment History

Ian Nelson Systems Limited March 2008 – Present

Focussed on Architecting and Developing Enterprise .NET and SQL Server solutions. Clients include:

Marshalls PLC (33 weeks, contract renewed)

Designed, developed, implemented and documented a Greenfield system to capture, assign and rank sales leads from multiple disparate systems. Technologies used included MSMQ, WAS (IIS7), C# 3.0, WCF, Workflow Foundation, SQL Server 2008, NHibernate, Fluent NHibernate and Castle Windsor.

Spiked the initial solution architecture for a new extranet offering, using a fresh technology stack including ASP.NET MVC 2, .NET Framework 4.0, Castle Windsor, NHibernate, Fluent NHibernate and AutoMapper.

National Institute of Health Research (42 weeks, contract renewed)

Technical consultancy role, providing a range of advice and services. Technologies used included C#, VB.NET, ASP.NET, NHibernate, SQL Server 2005, SharePoint 2007 and Dynamics CRM 4.0.

Produced and implemented recommendations for enhancements to key databases. Proposed and prototyped enterprise-wide reporting strategy, using Integration Services, Analysis Services, and Reporting Services to deliver on-demand reports by way of a data warehouse processed into a set of OLAP cubes.

Implemented TFS 2008 and Team System, improving development and testing team methodologies by introducing best practices including source control, work item tracking, and continuous integration.

Ventura (26 weeks, contract renewed)

Worked to aggressive timescales within a team of four to develop systems required by a new central government call centre. Technologies used included C# 3.0, .NET Framework 3.5, WCF, NHibernate, Monorail, Subversion and Oracle 10g.

Took particular responsibility for integrating web-based call-logging application with automated outbound dialler systems, by creating a WCF-based SOA solution to keep track of active calls. Also designed and developed a Windows Service and a Console Application to perform scheduled and ad-hoc batch processes such as the generation of regular correspondence extract files to enable letter production.

Marshalls PLC October 2003 – March 2008

Technical Architect and Lead Developer of a mission-critical ASP.NET / C# / SQL Server solution used by call centre staff at eight locations and via the internet by 350+ builders' merchants for the creation of quotations totalling over £1.8 billion per annum. The system uses Windows services to enforce company trading policy and send quote acknowledgements, minimising lost revenues and significantly reducing the time taken to issue accurate quotes.

Rolled out the system across six distinct business divisions, analysing the requirements of management and key users in each area to ensure that specific needs were met and any enhancements could benefit the wider group. Offering a group-wide view of current projects has improved the potential for identifying cross-sell opportunities and coordinating the chasing of sales leads. Liaised with Data Warehouse team in the production of OLAP cubes, and developed ad-hoc MI reports using SQL Reporting Services.

Architected and developed a "Portal" application framework allowing rapid and consistent development of ASP.NET applications for use internally and externally (via an Extranet). Leveraging technologies including compiled master pages, CSS, XML web services and shared low-level business objects, the team are able to benefit from a common look and feel, authentication, role-based security, deployment platform, and other features.

Acted as a "Thought Leader" within the development team, evangelising the adoption of practices such as TDD, continuous integration, multi-layered architectures, code reuse through component-based development, and exposing application APIs via web services to facilitate the integration of disparate systems. Researched and promoted technologies including AJAX, Team Foundation Server, Enterprise Library, and C# 2.0/3.0 language features including generics, LINQ and anonymous delegates. Mentored colleagues in many technologies including C#, .NET FCL, SQL Server, TFS, HTML, CSS and JavaScript.

Produced a wide range of targeted written documentation, including change advisory notifications for management, implementation procedures for systems team staff, release notes for end users and knowledgebase "crib-sheets" for helpdesk staff.

Broker Network Limited March 2003 – September 2003

Developed Windows and Web solutions using ASP, ASP.NET, VB6, VB.NET and SQL Server 2000.

ioko365 Limited December 2000 – January 2003

Designed, developed and implemented web-based applications. Major projects included:

IMS Health "Early-Insight"

Lead developer of a web application that presents daily sales data to subscribing pharmaceutical companies. Created using ASP and VB6 COM objects with an Oracle 8i database. Successful delivery for the UK and Irish markets resulted in separate versions being rolled out on the same codebase for a further 15 countries.

Hutchison 3G "Digital Accessories"

Worked in a small team to develop a J2EE / UNIX application to allow users of third generation mobile phones to purchase ringtones and graphic logos via their handsets.

Keane Limited September 1997 – November 2000

Clients included:

BG Transco PLC

Developed a web-based front-end for a workflow system using ASP, XML/XSLT and Visual Basic 6.

Halifax PLC

Developed systems for Intelligent Finance, Halifax PLC's internet bank, and for ISA saving accounts.

Assisted in preparing Halifax PLC for the possibility of UK entry into the single European currency. Proposed and prototyped generic solutions suitable for use across the group's core systems.

Education and Qualifications

University of Nottingham 1994 – 1997

BSc Mathematics – 2:2

Modules studied included Structured Programming, Coding & Cryptography, Game Theory, Algorithmic Graph Theory, Applied Probability, Combinatorial Counting, and Statistical Inference.

Dinnington Comprehensive School 1987 – 1994

1 Special – Mathematics Grade 2

5 A-Levels – A / B passes including Mathematics, Physics and Chemistry.