

Ian Nelson

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- Freelance Professional Software Developer with 14 years' experience across the full product lifecycle.
- Strong proven skills in designing database schemas, domain object models and service APIs.
- Hands-On Coder with a penchant for developing maintainable, loosely-coupled OO architectures.
- Effective client-facing skills; has led analysis, design and development of successful high-profile projects.
- Microsoft Certified – Professional Developer (Enterprise Apps), Tech. Specialist in SQL Server 2005, BI.

Core Current Technical Skills

- C# 1.0 – 4.0, LINQ
- .NET Framework 1.0 – 4.0
- ASP.NET, MVC, OpenRasta
- WCF, SOA, MSMQ
- WPF, MVVM, Prism
- Workflow Foundation (WF)
- SQL Server 7.0 – 2008 R2
- SSRS, SSIS, SSAS
- Oracle 8i – 10g
- NHibernate, FNH, NHProf
- OOP, Design Patterns
- DI/IOC (Castle Windsor)
- TFS, Subversion, Vault, Git
- TDD (NUnit, xUnit, MSTest)
- BDD (MSpec, SpecFlow)
- Mocking (Rhino Mocks, Moq)
- Agile (XP, SCRUM, Kanban)
- AutoMapper, ValueInjector

Contract Portfolio

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

Atos Origin (*11 weeks, fixed timescales*)

Joined a small agile team to help achieve aggressive and immovable deadlines for the development of new systems required as a result of M&A activity within the parcel industry.

The primary application delivered is a bespoke WPF (Prism) rich-client application, with supporting systems including multiple WCF endpoints, Windows services, and an ASP.NET MVC 3 administration site. Other technologies used included Telerik Reporting, NHibernate, Castle Windsor, ValueInjector, and SQL Server.

Got rapidly up to speed with the existing architecture, codebase and business domain, delivering new functionality from day one. Took ownership of data migration and registration requirements, and committed a wide variety of changesets across the suite of systems and logical tiers.

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 WCF, C# 3.0, MSMQ, Workflow Foundation, SQL Server 2008, WAS (IIS7), 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.

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.

NHS Choices for Capita PLC (*35 weeks, contract renewed*)

Developed functionality for the NHS Choices website allowing the display and editing of profile pages for NHS organisations including dentists, opticians, pharmacies, and trusts. Technologies used included C# 3.0, SQL Server, SharePoint 2007, NHibernate and Castle Windsor.

Helped the development manager to introduce pair programming and push the test-driven agenda.

Became known as a domain expert for NHibernate and Castle Windsor, providing help and advice with these frameworks to the wider team.

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

Technologies used included C#, VB.NET, ASP.NET, NHibernate, SQL Server 2005, and SharePoint 2007.

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.

Earlier Employment History

Prior to entering the freelance market, notable permanent employment positions held included:

Marshalls Plc

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. Utilised Windows services to enforce trading policy and send quote acknowledgements, minimising lost revenues and 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.

ioko 365

Lead developer of IMS Health "Early-Insight" web application that presents daily sales data to subscribing pharmaceutical companies. Created using AP and VB6 COM objects with an Oracle 8i database.

Worked in a small team to develop a J2EE / UNIX-based application to allow users of Hutchison 3G ("Three") mobile phones to purchase ringtones and graphic logos via their handsets.

Career Chronology

Contract Roles

05/2011 – Present NHS Information Centre
03/2011 – 05/2011 Atos Origin
01/2011 – 03/2011 Edexcel
04/2010 – 12/2010 NHS Choices (for Capita)
08/2009 – 03/2010 Marshalls Plc
10/2008 – 07/2009 National Institute of Health
Research
03/2008 – 09/2008 Ventura

Permanent Roles

10/2003 – 03/2008 Marshalls Plc
03/2003 – 09/2003 Broker Network
12/2000 – 01/2003 ioko (formerly Infocom)
09/1997 – 12/2000 Keane (formerly Icom
Solutions)

Education and Qualifications

BSc (Hons) Mathematics, University of Nottingham

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