

Kieron Lanning, Solution Architect and Software Engineer

+44 (0)7852544014 - me@kieronlanning.co.uk - www.kieronlanning.co.uk

Solutions-orientated software architect and engineer with over 10 years' experience in the design, development and support of bespoke business-orientated software solutions in a broad range of businesses and industries, including blue chip corporations, the financial sector and software-as-a-service environments

Working knowledge of delivering large and small scale projects requiring high availability and scalability, dealing with large amounts of data for persistence and processing, as well as smaller applications such as CMS systems and e-commerce web sites.

Experience in both corporate and digital agency environments, on green and brown field projects. Lead, built and managed teams and communication between development and clients/stakeholders.

Since 1998, I have read and used the latest technologies, mentored people at various levels, helped to implement Agile processes and run sprints to help teams achieve their targets.

Areas of expertise:

- Primary focus on C#, up to v5, but with some previous VB.NET and VB6 experience.
- .NET Framework, up to v4.5.
- ASP.NET MVC and WebForms (for MVC, up to v4 and primarily using the MVVM pattern)
- Windows Communication Foundation for IIS and self-hosted services.
- Unit Testing and Mocking frameworks, using NUnit, xUnit, MSTest, Rhino Mocks, Moq and NSubstitute – including the development of an NUnit based test system for NHibernate mappings, utilising SQLite for unit tests and SQL Server for integration tests, all using the same test methods.
- Javascript, jQuery, (X)Html (including Html5), CSS and Less CSS.
- Windows Forms and more recently WPF, using MVVM via Prism, MVVM Light and Caliburn Micro.
- SVN, TeamCity, Team Foundation Server, MSBuild and NuGet – recently migrated from SVN and TeamCity to TFS 2012, including installation, management and customised builds. The custom build process also used Octopus Deploy for rolling out new builds.
- SQL Server design and development, up to 2012.
- A key focus on development using SOLID principals.
- *A firm believer in using Agile methodologies for delivering all sizes of software projects. I am also an advocate of TDD for ensuring quality, and helping to drive the application design.*

Apptelic Ltd, Home Based/ Lymington. Senior Developer (Contract), January 2013 to August 2013

Developing solutions for the media industry. From Devices such as Windows Phone and Windows 8 tablets to the Xbox 360. Client applications were developed using either C# or WinJS on a variety of platforms.

My last project at Apptelic was the design and build of an Azure based web service and site for managing publisher's media content. The site was an MVC 4 based application with the service based on Web API v1. Both used Ninject for IoC and NHibernate for data access.

The solution was written with TDD via the xUnit framework.

My role also granted me an opportunity to work on early applications for the Xbox One, via an early ADK and XDK.

Benefex Ltd, Southampton. Lead Application Developer (Contract and Permanent), September 2011 to January 2013

Developing a hosted, secure website solution used by clients' employees to manage their company benefits. Developed using ASP.NET MVC, utilising extension points to add infrastructure and features fulfilling client and business requirements.

Also worked on a WPF administrative application using the Prism MVVM framework to develop modules that could manage the features created for the web client.

The backend solution was built from several services, using both WCF and NServiceBus. The CQRS pattern was used to allow the entire application to function, even if the database server or the host NServiceBus servers could not respond.

While at Benefex, I planned and implemented the following:

- SVN to TFS 2012 migration, including NUnit continuous testing via MSBuild, NuGet package support and Octopus Deploy for deployment builds.
- Less CSS for client branding, turning a five day task into between 15 and 30 minutes, depending on complexity.
- Bespoke NHibernate testing framework, allowing unit tests to be run against SQLite in memory for quick unit testing, and a full SQL Server instance for complete integration testing.
- Performance analysis over the entire solution, resulting in some substantial gains in CPU and memory usage, specifically around the start-up time.
- Convention over configuration approach to including web resources including Javascript, Less CSS and CSS files inside Razor views.
- A complete style and structure overhaul of the entire web application, resulting in better cross-browser support and a standard set of layouts. This involved a total re-write of the Razor layouts to a common set of HTML5 based templates, with various pre-defined structures.
- Implemented a bespoke MVVM framework for Javascript.

Architas Multi-Manager Ltd, London. Solution Consultant (Contract), September 2010 to September 2011.

Architected and developed a fund management peer group analysis tool for use by Fund Managers to research and select funds for client investment.

The solution was ASP.NET MVC 3 (MVVM) using HTML5 and built on the .NET 4 Framework. Windows services performed nightly calculations on downloaded fund data (up to 300Gb per month). Heavy use of jQuery was used to enable users to perform complex filtering within the client's browser.

Fund managers filter to select one or more funds, perform a variety of reports on them, and decide on their viability for investment. The filters could also be persisted for use later or sharing with other users.

Freelance, Home Based. October 2010 until September 2011.

Carnival UK: The project was the re-development of a Windows Service based message processing engine used for the procurement of facilities and services on board cruises.

Enhancements included an increased message throughput over 10 times greater than was previously available, including a greater resilience to network failures.

TEAV UK: Designed and built a small, bespoke CMS for one of their public facing sites, allowing them to update content instead of relying on external development resources. The site was MVC3, C# 3.5 and SQL 2008 based.

TNT Post: Re-styling of a public-facing website to a TNT Post brand. The application was ASP.NET 2. Re-styling was achieved by making careful changes to the underlying .ASPX files and applying updated CSS files, as access to the source was not available.

Noonsite: A bespoke CMS written using ASP.NET MVC 2 and the Spark View Engine to allow editors to manage content, while having the page moderated by a member of staff.

Digits Ltd, Fareham. Senior Developer (Contract), June 2009 – October 2009

Hired to improve e-Learning and CMS products. This included building a common framework of data access and logging. Performance was a key consideration.

The Co-Operative, Eastleigh. Software Engineer (Contract), January 2009 to June 2009.

This role was created to clear the backlog of new feature stories and bugs in a backend solution used to manage in-store tills. The product allowed central staff to manage promotions, track stock and account for till take.

UX Media Ltd., Southampton. Technical Director (Permanent) May 2008 - January 2009

In charge of the technical direction for a small digital agency. My role involved managing the infrastructure, project delivery and management of the development team.

We used ASP.NET based technologies to deliver modular and highly robust applications for high-profile clients. Specification writing, project scheduling, architecting and managing software implementation.

The products developed included CMS', e-commerce solutions and high-volume functional intranet applications for large multi-national organisations.

Pivetal Ltd, Southampton. Software Engineer (Contract), January 2008 to May 2008.

Designed and developed a complex forms application using WCF service and ASP.NET site in C#. The goal was to facilitate the automation of several disparate services, including active directory accounts and sales force accounts.

The solution had each form, which represented a step in the workflow, delivered via XML from a service called G2; the entire solution was for BT and The Department of Work and Pensions.

Sytech Designs Ltd, Southampton. Software Engineer (Contract), June 2007 to December 2007.

C# and Compact Framework 2 development using bespoke hardware based on the Windows CE5 platform. The result was bus and tram ticketing machines for the Myki project in Melbourne, Australia.

Heavy use of patterns to ensure we can reuse components between the bus and tram machines, while maintaining a common code base.

UX Media Ltd, Southampton. Software Engineer (Contract), June 2007.

Short-term contract to help on the delivery of projects for Casio and the Carnival Group. Both projects were ASP.NET, utilising the AJAX Toolkit and Javascript.

WorksUnit Ltd, Southampton. Software Engineer (Contract), December 2006 to June 2007.

Hired to help a small team build ASP.NET sites and Web Services for clients such as Casio and Thomas Cook.

Design and implementation of a digital asset management system that enabled users to upload files of any size to a .Net 3.0 WCF based web service and optionally convert them via FFmpeg. Users could then download and share assets with other users.

Pivetal Ltd., Southampton. Software Engineer (Permanent), January 2004 to December 2006

Design and implementation of a .NET 1.1 based client/server solution for maintaining and generating voice and data routing information for telephone switches in a major UK carrier's network.

Part of a team designing and creating:

- Server side switch data comparison engine, used to route voice and data traffic.
- Server based custom message delivery system, including client side GUI.
- A language using the LAX and YACC tools which compiled into C#.
- ASP.NET based configuration application for internally designed hardware.

Other roles have included:

- Creating a parts and assembly management suite for the EH101.
- Technical Drawing manager, used for versioning of SGML based files.
- Creating mail shot services and management applications.
- Stock control and management software for a publisher and greeting card manufacturer.