# Stephen Harrison

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## Profile

I am a developer with over 18 years’ experience of programming with a vast knowledge of Web and Windows full stack development. I possess strong technical skills and always strive to learn new technologies. Comfortable working alone or as part of a team, I aim to deliver easily maintainable code that meets all requirements within a deadline. I have experience working with both Agile and the more traditional Waterfall methodologies.

Primarily, I have domain expertise in the Utilities and Wealth Management sectors but have also worked for an e-Commerce department. I possess a First Class Honours degree in Mathematics and a Masters in Computer Science.

*Areas of Expertise:*

Web and Windows development / User Interface design / Optimisation / Problem solving / Full lifecycle software development / Object oriented programming / Design patterns / Agile and Scrum methodologies / TDD & BDD / Database design / Testing

## Skills

* *Languages*: C#, JavaScript, TypeScript, T-SQL, HTML/HTML5, CSS, XML, JSON, PL/SQL
* *Databases*: SQL Server, Oracle
* *Software*: Visual Studio.NET 2017, GIT, Team Foundation Server, IIS, BizTalk, CRM, ReSharper, Jenkins, Jira, Splunk, GitLab.
* *Technologies*: .NET 4+, Angular, Angular.js, ASP.NET (Core), ASP.NET (MVC), Web API, Node.js, Bootstrap, jQuery, Entity Framework, WCF, ASP.NET (Web Forms), Windows Forms, ADO.NET, MS Test, nUnit, MOQ, Unity, Autofac, Automapper, Gulp.

## Work History

## (Contract) Bet365 (2019 – Present): Contract Software Developer

This role is based in the Web Members team which is largely focused on customer related functionality. Each project typically uses C#, TypeScript, SCSS, Web API, ASP.NET MVC, VB.NET. Key projects:

*Members Consolidation* – Previously Bet365 Members had two distinct applications for Web and Mobile devices. This project sought to expand the functionality of the Mobile application to accommodate Web, thus rendering the Web application obsolete and therefore halving future development efforts. Along with the extra functionality required, the Mobile application was provided with a more responsive design.

*Project New Jersey* – This project concerned adding United States as one of the countries that Bet365 operates in. Specific requirements were required to accommodate language, culture, regulatory obligations, etc.

*Continuous Integration* – Currently the build process of each of the applications involves a manual Jenkins process. This project concerns automating this process. Created an end to end set of Gulp tasks that would, clean, build, test and publish the entire suite of applications.

## (Contract) Third Platform Services (2017 –2018): Developer/Application Architect

Third Platform Services is a subsidiary of Third Financial and uses a more focused version of the Tercero product. The software uses the following technologies: C#, Entity Framework, SQL Server and WCF. The work included:

Completing a project for a major client which is worth over £1m to the company.

Supporting TPS during their start-up phase with them growing from £0 assets to now over £1.3bn in less than 18 months.

Ensuring the software was compliant with MiFID II regulation and thus helping the entire client base to enter 2018 fully compliant with these regulations.

Rewrite of the Fees module to optimise performance at the database, code and network data levels.

Interface to the Morningstar API to retrieve security related information and update the core Tercero database.

Create tasks to update the CRM entities for security holdings and accounts with data held in the core Tercero database. This was to provide the client with all of their reporting needs in the CRM application directly, rather than viewing the data in two separate places.

## (Contract) Finning (2016 – 2017): Software Engineer

This role was primarily a Web Development role using leading edge technology to create responsive, mobile-friendly applications. Key projects:

*Dealsheet New Equipment –* This was a greenfield project to create a mobile friendly single page application website for the purpose of generating sales. The website allows sales staff to select equipment, enter customer details and generate quotes. These quotes get sent to the customer via email along with a confirmation URL and PIN for the user to “accept” or “reject” the quotes. Additional features of the website include the ability to view the last orders, copy an order, accept an order on behalf of the customer, resend PIN, etc. This was written in ASP.NET Core, Web API and Angular.js. Other technologies used: SQL Server, Entity Framework, HTML5, Bootstrap, Bower, NPM, Gulp, Underscore.js, Toastr.

*Bargain List (Mobile) –* Created a responsive website that allows AD users access to the Bargain List data. This was written in ASP.NET Core, Web API and Angular.js. Displayed the list of data in a card format that incorporates decompressed images. Filtering, sorting and paging features were added. Clicking an image would provide full details of each item in a modal style popup. Technology used: Angular.js, ASP.NET Core, Web API, HTML5, Bootstrap, Bower, NPM, Gulp.

*Bargain List –* Created new input screen to allow users to automate the input of sale items. Currently this is all done in a Word document. Added a List screen with Edit functionality in addition. Technology used: Telerik AJAX controls, HTML 5, Bootstrap.

*E-Com –* This project was concerned with automating the sending of Order information to an external courier (TNT), reading tracking information from the courier and feeding this information to Caterpillar. A micro-service infrastructure was used for this purpose. This was achieved via scheduled jobs that would read/write to the file system and calls to Web API endpoints that would audit this information and route the tracking number to an external Caterpillar system. The routing of messages was handled by NServiceBus. A Dashboard style website was also created to display the status of all routed Orders. Technology used: Angular.js, ASP.NET Core, Web API, HTML5, Bootstrap, Bower, NPM, Gulp, SQL Server, Entity Framework, RestSharp.

## (Contract) Third Financial (2013 – 2016): Developer/Application Architect

This role combined working on the existing Tercero Wealth Management system and maintaining the Web Portal, which I was the lead developer for. Key projects:

*Web Portal –* Provide support for the existing website and provide technical guidance for less experienced developers. Ongoing project. MVC, Telerik MVC Controls, WCF, HTML, CSS

*Research and Development*: Implementing new technologies, updating the architecture of the application and boosting performance. In particular, to identify bottlenecks in the system, using a number of tools such as ANTS Profiler, and to be able to increase throughput accordingly. ANTS, WCF, Entity Framework, Automapper

*Scheduler –* The Tercero system included a number of scheduled jobs which could be controlled directly via the database or externally through a Website. I converted the existing Website to be part of the main Tercero application so that the customers were able to control their own schedules. ASP.NET, MVC, SQL Server 2012, Windows Forms.

*Who Holds* – This functionality already existed in Tercero but for one customer in particular it was too slow to retrieve the data. I was tasked with creating a tailored version of this screen that would provide the same results but in a more efficient manner. For complicated queries that used to take 20 minutes to return, I managed to make return in a few seconds. Entity Framework, Windows Forms, SQL Server 2012, WCF.

*Consolidated Tax Certificate reporting*: SQL Server 2012

*Type18/EUSD reporting:* Windows Forms, Entity Framework

### Npower (2012 – 2013): Web Developer

Working as part of the e-commerce team, the key projects were:

*Energy Tracker*: Developed the Energy Tracker page on npower.com. This was a new function that allows the customer to view their historic energy consumption over a selectable period of time with the option to split by fuel type, register and whether the chart is displayed in bar or line mode. Technologies used: jQuery/Flot, Ajax and MVC.

*Project Hector*: This was a large scale project replacing and expanding on, the existing quote and switch functionality on npower.com. The development was achieved using Agile/TDD methodologies and used the following technologies: MVC, Ajax, Unit Testing, Mocking, jQuery, JavaScript, WCF, TDD and Entity Framework.

### Third Financial (2011 – 2012): Developer/Application Architect

The primary system that Third Financial provides is Tercero. This is a suite of applications with the principal one being IMS, which is a WinForms application with a SQL Server database. WCF, DevExpress controls, Entity Framework, TFS, BizTalk and CRM are just some of the technologies used whilst developing this system. Key projects:

*EMX/Fidessa Test Harness*: Development of a BizTalk application to communicate via the FIX message protocol with external financial systems. Used WCF to communicate with a brand new ASP.NET website. This project utilised skills in ASP.NET (C#), .NET 4.0, SQL Server 2008, Entity Framework, BizTalk, WCF.

*Entity Framework refactoring*: Converting the trading portion of the Tercero application from ADO.NET to Entity Framework. C#, .NET 4.0, SQL Server 2008, Entity Framework, Dynamic Loading.

### RWE IT UK (2000 – 2011): Analyst Programmer/Senior Analyst Programmer

This was the first position after graduation and started out as a support role but subsequently moved on to a full development role. Key projects:

*UAM20*: Lead Developer for a brand-new company-wide user administration tool. This project utilised skills in ASP.NET (C#), .NET 4.0, SQL Server 2008, Log4Net, Active Directory, LINQ, Webservices, Oracle, AJAX, WMI, CSS.

*Cogen ODS (multiple projects)*: Windows Form application used for power trade and consumption related data. Windows Forms (C#), .NET 3.0, SQL Server 2005, WCF, Agile, Automated Testing, LINQ, Enterprise Library.

*Equip*: Add reporting features to a new competency recording application. This used the new ASP.NET Charting control. ASP.NET, .NET 3.5, SQL Server 2008, LINQ.

*Activity Tracker*: Developed a new intranet site to log user time usage. This project utilised skills in ASP.NET (C#), AJAX, JavaScript, CSS, SQL Server 2005, .NET 3.5.

*EPPS (multiple projects)*: This is a former third-party .NET 2.0 Windows Forms application that had been brought in house. It records electricity payments and usage for pre-payment meters. Lead developer. Windows Forms (C#), .NET 2.0, SQL Server 2000, DTS, Webservices, ADO.NET.

*Course Booking Tool*: Develop a Classic ASP application to enable internal course bookings. ASP, VB Script, SQL Server 2005.

## Education and Training

MSc Computer Science. Wolverhampton University

BSc (Hons) Mathematics and Computing, 1st Class. Wolverhampton University

Ounsdale High School, Wombourne, Staffordshire

3 A-Levels. All Grades A-C including Maths and Physics.

9 GCSE’s. All Grades A-C including Maths and English.

IT Infrastructure Library (ITIL) (Parity Training) - Certified

Prince 2 (Parity Training)

## References

Available on demand