Dominic Shaw

Personal Details:

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Overview & Objectives

My current role covers the full system life cycle using WPF and ASP.NET front-ends, WCF and Web API middle tiers, and SQL Server back-ends in a successful fund management company. This provides me with an arena to use and explore my skills in a fast paced technical and business environment. I am innovative, capable and a very quick study. I am excellent at getting a quick understanding of what a user wants and providing a solution quickly and to a high standard. I want to be somewhere that innovation is part of the process, and that will stretch and challenge my expertise, and where I will be able to see the benefit of my actions to the business.

Employment

Aug '10 – Current: TT International

TT International is a Fund Management company of around 100 employees, specialising in high-alpha strategies. It comprises of several long funds split regionally, a number of hedge fund strategies, and a macro fund. The AUM is split roughly 60/40 across the long funds and the hedge funds, respectively. I work in a team of five providing both front and back office solutions to aid the business.

My time at TT can be best summarised by the projects listed below. Each of these projects has been built from scratch and the last two were written entirely by myself (with peer review and shared best practice). Each features a WPF MVVM front-end, a WCF middle-tier (although new projects are now Web API), and a SQL Server backend. Each also has a lightweight ASP.NET front-end designed for remote access. They all make heavy use of SSRS and DevExpress reporting.

- A "to-the-second" risk & exposure system, specifically targeting hedge and macro teams but later rolled out to the long side as well. This was one of my first large projects at TT. Now mature, it has been, by any standard, very successful. It integrates directly with our PMS/OMS and with Bloomberg to deliver accurate profit and loss numbers in real-time. The work on this system was split largely into middle and front-end, between two developers. I took the WCF middle tier and the small amount of SQL (mostly loading from existing databases), while my colleague worked on the WPF front-end. I also authored the ASP.NET front-end for remote access to this system.

- A research system, which allows quick and easy storing and retrieval of research (models, broker reports, etc). The project, important to a research led investment firm, could have been simple however there was a lot of room for innovation. Some areas that I found to increase the effectiveness of the product were:
    - Automatic generation of investment cases from Bloomberg data;
    - "Ideas" management for tracking stocks;
    - Integration with the OMS to tie everything together – i.e. what research is for what position / idea, association of research with stocks from the OMS, etc.;
    - Plugins for Microsoft Office (with VSTO toolbars) and Adobe Reader (with their plugin SDK);
    - Microsoft Exchange (EWS) integration which read from a "deposit" mailbox to get notes sent via email, scrape out the associated companies and attachments and upload it all to the system. There is also functionality to scrape a general "research" mailbox for broker reports;
    - Company Meeting management – input and scraping via Exchange (EWS) of categorised meetings in users calendars to coalesce into a single Company Meeting calendar.
  This system replaced Advent's *Tamale* and was preferred by all users – not just in user experience but in functionality as well. The resounding success of this project led to my being given the reigns to developing another, highly integral system for the company:

- A "ticketing" application which allows the managers to model a trade for most asset classes and submit the ticket directly to traders and/or the OMS. The modelling functionality built into this allowed automation of things like dispersion, CFD management, order sizing, as well as any validation and compliance that the OMS is not suited to. My close work with fund managers on this project has enabled me to create a user friendly application that they were keen and confident to use. The successful uptake of this application by the fund managers reflected the real success of the project, especially as many were initially reticent to change an ingrained practice of paper ticketing.

As with any small to medium sized company, there is often call for small applications; be that integrations between systems, web front-ends for simple tasks, scheduled jobs, or reports. This is something I am happy to absorb into my tasks, and this is a regular reality. Some examples include IPO ticketing and workflow, the Compliance team's workflow application (attestations, PA trading, regulatory reporting, etc.), chart packs, and many more.

Aug '09 – Jul '10: Travel

Nov '05 – Aug '09: Nexus Open Software

At this software house of around 20 developers, I worked as part of a team for around two years before I was promoted to Senior Developer (team leader) and assigned my own project, a CRM system, to run with my own team. I continued with this project until I left Nexus two years later. This exposed me on a grander scale to the full system life cycle from technical specifications and modelling, through to release and maintenance process, including meeting with clients to discuss future development, then planning and delegating portions to the team. This product was targeted mainly at the financial and legal sectors.

I also created a role for myself as the main contact for all reporting work, having spent significant time working with SSRS. This is an area I find very rewarding because of the requirement of making the code as efficient as possible. I was regularly hired out as a consultant to companies on this subject, and also delivered Microsoft training courses on SSRS and SQL Server (T-SQL).

Dec '04 – Nov '05: CMT Group

This was a small software house with a team of four. We developed with SQL, ASP.NET, VB.NET, ASP, PHP and VB6, delivering projects to a very diverse set of local companies.

June '04 – Nov '04: Pattern Analysis & Applications (PAA) Journal

PAA, a journal operating out of the University, hired me to write a paper submission system in ASP.NET. This was a fast introduction to commercial software development and a steep but enjoyable learning curve.

Education

2:1 from University of Exeter in Computer Science BSc.

I covered a wide range of topics at Exeter, the first two years focusing in the main on learning OOP techniques with J2EE. I also covered SQL, using Oracle, and modelling languages such as UML in significant depth.

In the third year, while continuing with Java, SQL and UML, I did a dissertation in web development using ASP.NET, which formed the beginning of my drive to join a web development company upon graduation, and which led to my work at PAA.

Other topics covered include Neural Networks, Artificial Intelligence, Concurrent Programming and Networking.

IT Related Skills

Languages:	- C#; specifically WCF, WPF and ASP.NET MVC/WebForms. .NET Versions 3.5 - 4.6; .NET Core; - SQL and T-SQL; - SSRS 2005-2016, DevExpress Reporting, some Crystal; - JavaScript (including jQuery, Angular, Knockout, and similar libraries); - HTML5, CSS, XML, JSON; - ASP & PHP (including some OOP PHP); - Exposure to C, C++; - VB, VB Script, VBA and VSTO; - Modelling with ER and UML.
DMBSs:	- SQL Server 2005-2016; - Oracle; - MySQL.
Tools:	- Microsoft Visual Studio (All Versions) - IIS Web Server (Advanced), Apache (Exposure); - DevExpress Controls (WPF, MVC, ASP.NET Web Forms); - Bloomberg / Bloomberg Server API / Bloomberg Desktop API / Managed B-PIPE; - Beauchamp, Landmark Longview.

Interests

When not working I love to climb, to dive and to ski. I am a certified Dive Master, meaning I can take certified divers on led dives - a job which I took up for 3 months while travelling. I love to climb and try to get to indoor centres as much as I can, and of course, when the weather is up to it, to go outdoors as well. I love to ski more than anything else and take every opportunity I can!

References available on request.