

# Keith Stuart Jackson

*Troubleshooter, Developer & Agile Pragmatist*

<https://www.minotech.co.uk/>

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- 20 years' technical experience in consultancy, development, architecture, management and support.
- Pragmatic Agile leadership, mentoring & facilitating.
- Maximising profit and quality through empowerment.
- Consultancy specialising in startups and MVP delivery.
- Differing perspectives (Experienced with Development, Test & Business perspectives).
- Technical Arch. & Complete Software Development Lifecycle.
- Ensuring Quality - CI, Standards, Best Practices, DevOps.

## Consultancy History

### Parity Projects (April 2019 - )

#### Technical Mentor

Providing training and guidance on implementation of best practices including Unit Testing, TDD, architectural patterns, source control techniques and DevOps in expectation of a DevOps project kick off towards the end of the year.

### Esoterix CTO (Sep 2016 – Mar 2018)

[<http://www.esoterix.co.uk>]

#### CTO

I joined Esoterix, a transport orientated solutions developer, at the time they needed to begin designing and developing technical solutions for Innovate UK and European funded projects to experiment with different types of first / last mile taxi / bus integration services to enhance the public transport network to a point where public transport was the obvious choice for travel rather than usage of a car.

My role at Esoterix was extremely wide ranging as a startup CTO – From initially designing and coding MVPs myself while gradually building a development team from nothing up to 4, scaling up other parts of the business as it became necessary, to redesigning the platform architecture for post MVP growth. Over the period my role encompassed Lead Developer, Technical Architect, Scrum Master, Tester, Mentor, DevOps, Infrastructure Support, Line management and Product Owner roles as well as informing technical direction as part of the C-Level board. I worked with external partners on projects both academic and practical.

### The Pragmatic Agile Community (May 2016 – Mar 2017)

[<http://www.pragmaticagile.community>]

#### Founder

I began gathering a community of like-minded pragmatic agilists together to discuss, debate and find a productive way forward for the Agile community in the face of growing Agile dogma. The core web platform was made available and a certification scheme established for experts in the field to peer review each other and certify highly capable individuals as being experienced with Agile from a pragmatic perspective, utilising multiple frameworks and techniques. The advent of GDPR made this venture unprofitable and the website is now purely informational.

### Somo Delivery Transformation (Oct 2015 – Apr 2016)

#### Agile Coach & Consultant, Pilot Scrum Master

I provided Agile consultancy services to co-design the transformation of Somo's delivery structure from a basic

		SKILLS MATRIX			
<b>AGILE PRINCIPLES</b>					
Principles					
Scrum					
Kanban					
Coaching					
Pragmatic					
XP					
<b>TECH. PRINCIPLES</b>					
Architecture					
SOA					
REST					
SPA					
Continuous Integration					
Continuous Deployment					
DI / IoC					
Functional Paradigms					
OOD					
<b>QA PRINCIPLES</b>					
TDD					
BDD					
Automation (UI / API)					
Refactoring					
Cucumber / Gherkin					
Selenium WebDriver					
<b>DOTNET</b>					
dotnet standard	2.0				
dotnet core	2.0				
dotnet framework	4.6				
C#	7.1				
Visual Basic / VB.Net	9.0				
ASP.NET Classic / WebForms	4.5.1				
ASP.NET MVC	4.0				
ASP.NET Web Api	2.0				
ASP.NET Core	2.0				
Entity Framework	6.0				
Entity Framework Core	1.1				
Razor					
MSTest					
Nunit					
Xunit					
NSubstitute					
Moq					
<b>JAVASCRIPT</b>					
ECMAScript (5)	5.0				
ES6 / 2015 +	2016				
jQuery	2.2.4				
Node.js	8.0				
JSX					
Phantom JS	2.1				
Backbone					

waterfall / studio combined structure into a Scrum based delivery system for 3 teams and 1 team running Kanban. As a Digital agency, Somo has many clients and teams must be able to deliver to multiple client products at once while maximising the potential of skill sharing. This started with a pilot phase where I acted as a Scrum master for a pilot team working with the US office to evolve the implementation strategy for the rest of the engineering teams in the business.

I recruited new Scrum master roles into the business and both wrote and provided detailed custom training courses on Scrum & Agile basics, tailored to Product Owners, Team Members & Project Managers while mentoring existing staffs through the new ways of working. I reconfigured the existing JIRA system to a more flexible form to suit the new approaches and provided training on the changes.

### **Somo Rolefinder Project (Jul 2014 – Oct 2015)**

[<https://www.army.mod.uk/rolefinder>]

#### **Facilitator, Lead Developer, DevOps**

I Facilitated the project, initially with 3 developers and 3 QA dedicated to the project for the first 4 months then took responsibility for the full lifecycle, development and most of the testing in the support period that followed liaising with the client’s project manager, providing the interface to the end client. I introduced the team to several key Agile concepts to improve the flow of work and facilitated estimation of tasks to report the current state of the project back to the project manager.

The team went through several distinct iterative phases of workflow, each time moving away from the initial waterfall spec to add elements to the workflow pipeline to improve quality and reduce bugs.

### **Kindeo (Feb – Mar 2015) [<http://www.kindeo.com>]**

#### **Consultant CTO**

I was approached by the founder of Kindeo for advice and assistance in building an initial technical strategy to get the Kindeo MVP to market and review applications from agencies pitching for the business to develop the MVP.

### **Sian’s Plan (May 2012 – Jun 2014)**

#### **Tech. Consultant, Management Consultant**

Consulted on Development of a web-based mobile platform to initially partner and, as feature parity was achieved, eventually replace the existing SiansPlan platform. I was responsible for development and providing technical guidance to the CEO. I aided the CEO in cost evaluations on different options to realise the final product.

Sian’s Plan was Winner of ICCC 2012 and IIA Dot IE Net Visionary Awards 2012. The project was run in different phases as both a Scrum and Kanban style project.

### **Acumen Synergy (Oct – Dec 2013 / May 2015)**

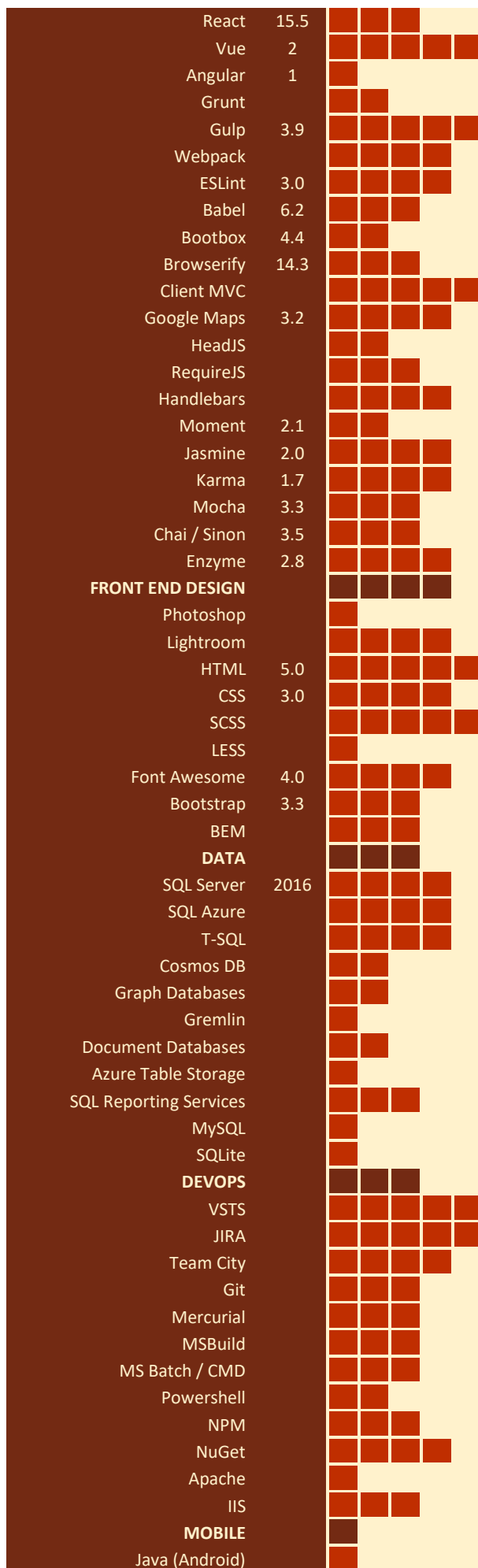
#### **Development Mentor, Tech. Consultant**

Training & Mentoring a client internal development team both on-site and remotely while providing small pieces of development work toward the project to highlight best practice development techniques and how to apply them in real-world scenarios such as Test-Driven Development, Continuous Integration and Pattern based design.

### **Lewisham Enforce (BBits) (Feb – Apr 2013)**

#### **Project Owner, Scrum Master, Tech. Lead**

Project management and technical oversight on a Windows 8 app project interfacing with 3 external APIs. Managing internal staff and recruiting for outsourced teams to add additional resources.



## SkyRock Communications (May 2011 – Feb 2012)

### Scrum Master, Tech. Architect, Development Manager

Progressive development of a custom multi-lingual and multi-site CMS platform. Best practice was applied with side projects and tools where possible. I built up the development infrastructure and team for this work from scratch and acted in a half management / half technical capacity. I acted as a Scrum Master across two teams, one internal and one 3<sup>rd</sup> party working remotely and presided over methodology transition from Scrum to Kanban Agile approaches. I was technically responsible for coaching and pairing with my team members, providing high-level technical concepts and developing smaller scale applications within the scope of the project. Here I began to develop paradigms for Agile delivery in a digital agency environment.

## Nokia UI Testing Frameworks (Jan 2009 – Jun 2010)

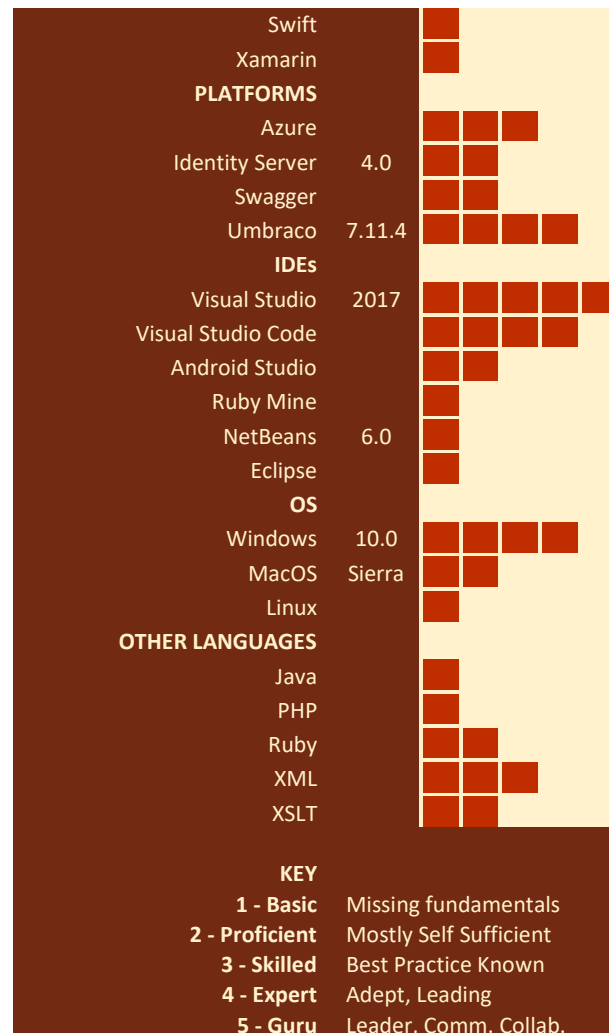
### Lead Developer, Trainer, Product Owner

Development of an initial UI testing framework to enable abstracted testing across WCF and web-based clients as well as providing client independent testing of services. Running with a team of 2 primaries and additional outsourced resource to serve a development environment client base of over 50 development staff using Scrum acting as Lead Developer and Product Owner. Development of a second UI testing framework using Ruby and training of said framework to the web development teams in handover. Product owned, and project managed a linked test distribution system also using Scrum.

## S-Cool (Aug 2005 – Apr 2008)

### Lead Developer, Tech. Architect, Scrum Master

The Apprenticeships online engagement system, Area Prospectus and Common Application system for students, rolled out to many UK local authorities all developed using Scrum.



## Development Project History

### Household (May 2019 – August 2019)

**PARITY PROJECTS** – [C#, ASP.Net MVC, .net Framework, SQL Server, Entity Framework 6, Vue.js, Vuex, Vue CLI, JavaScript ES6, SCSS] **Full Stack Web Developer / Project Manager**

Expanded role to take on back end as well as front end work on the project as it evolved to MVP.

### IPTN Dashboard (June 2019)

**DIABETES DIGITAL MEDIA** – [C#, ASP.Net Core, Entity Framework Core, Web API, Vue.js, Vuex, Vue CLI, JavaScript ES6, SCSS] **Full Stack Web Developer**

Full stack Vue.js based fully responsive SPA and .net core API for managing and reporting on diabetic patient data – Initial skeleton and authorisation modules.

### Household (November 2018 – March 2019)

**PARITY PROJECTS** – [Vue.js, Vuex, Vue CLI, JavaScript ES6, SCSS, Webpack, Adobe XD] **Front End Web Developer / Project Manager**

Front End Vue.js based fully responsive SPA for investigating the outcomes of applying renovations to property. Makes use of Vuex to store application state between multiple key pages to be able to compare data and to cache API information for complex calculations and optimise performance for a smooth user experience.

### Langford Vets (May – September 2018) [<http://www.langfordvets.co.uk/>]

**MENTOR DIGITAL** – [C#6, Umbraco 7.10, dotnet 4.6, Vue.js, JavaScript ES6, SCSS, Webpack, Gherkin, WorldPay integration] **Full Stack Web Developer, Scrum Master / Project Management Support**

Brand new site development on Umbraco 7.10 using Models Builder based architectural models. Front end written using Vue.js components. Working in a team of 3, providing technical mentoring and agile support in helping run the project as well as Umbraco architectural patterns. Through planning and technical diligence, I was able to shave over £10,000 from the project cost. Site goes live 2019 (Link above will be the old site until then)

### Clarion GDPR (May – June 2018)

**MENTOR DIGITAL** – [C#6, Umbraco 7, dotnet 4.5, AngularJS, JavaScript, SCSS] **C# Developer**

Various updates to the tenant management site to meet GDPR requirements.

## **Imperial Tobacco Ingredients (Snus) (May 2018) [<http://imperial-ingredients.com/>]**

**MENTOR DIGITAL** – [C#6, Umbraco 7, dotnet 4.6, AngularJS, JavaScript, SCSS] **Lead Developer**

Full stack web development to adapt the Ingredients site to support an additional product, including significant updates to the Umbraco back office to allow upload and management of ingredient data from spreadsheets.

## **Brand Learning Website (April 2018) [<https://www.brandlearning.com/>]**

**MENTOR DIGITAL** – [C#6, Umbraco 7, dotnet 4.6, jQuery] **Lead Developer**

Complete back end code refactor of a site takeover from one agency to another, bringing code up to best practice patterns and reducing bloat.

## **Woodsman (Jan 2017 - Mar 2018)**

**ESOTERIX** – [C#7, dotnet core 2.0, ASP.Net Core 2.0, CosmosDB (Graph & Document), SQL Azure, Entity Framework Core] **Technical Architect, Lead Developer**

Development of a logging microservice to support taking event logging information from apps and websites within the product suite and storing them either in SQL Azure or Cosmos DB Graph storage, depending on configuration and usage.

## **Buzz 2.0 [POCs] (Dec 2017 - Mar 2018)**

**ESOTERIX** – [C#7, dotnet core 2.0, ASP.Net Core 2.0, JavaScript, React, JSX, CosmosDB (Graph & Document), SQL Azure, Identity Server] **Technical Architect**

Architectural design for the next generation of the Buzz platform, transforming the MVP into a microservice architecture using a mixture of isolated data sources including Graph and Document databases, as appropriate to need. The system POCs were built using dotnet core 2.0 and CosmosDB in Graph mode with libraries created for graph structured dynamic logging and to translate defined object structures from a common model to the appropriate type of data store. The new front end is to be a React based front end as an SPA, designed to incorporate the appropriate services for the type of transport experiment that the application needs to support. The application will run and scale on the Azure platform. Development work on this beyond the POC stage is ongoing.

## **JourneyBatcher for Schools (Sep – Mar 2017) [<http://schools.journeybatcher.com>]**

**ESOTERIX** – [C#7, dotnet core 1.1, ASP.Net Core, Razor, HTML5, CSS3, SASS, Bootstrap, JavaScript, React, JSX, Azure CosmosDB (DocumentDB), Identity Server, XUnit, Chai / Sinon, Karma, NSubstitute, Git, Azure, Gulp, Browserify, Google Directions] **Technical Architect, Lead Developer, Product Owner (initial design), Scrum Master**

Product design and development of a themed Single Page Application (SPA) using React, wrapped in a secured harness using common internal Identity Server code for authentication. The application uses the Google Directions API and a backend processing mechanism, using ASP.Net Core WebAPI to batch process optimum journey options for planning school transport needs for councils. Data storage had to be temporary, so Cosmos DB in Document mode was an ideal solution, data set to expire and self-delete after a period of inactivity. DevOps and planning were managed by VSTS. Swagger was implemented, along with a custom API automation suite for end to end testing of the API.

## **Buzz (Sep 2016 – Oct 2017)**

**ESOTERIX** – [C#6/7, dotnet core 1.0/1.1, ASP.Net Core, Razor, HTML5, CSS3, SASS, Bootstrap, JavaScript, React, JSX, jQuery, SQL Azure, Entity Framework Core 1.0/1.1, XUnit, Chai / Sinon, Karma, NSubstitute, Git, Azure, Gulp, Browserify] **Technical Architect, Lead Developer, Product Owner, Scrum Master**

Product design and development of a cutting-edge MVP for supporting running first / last mile transport services in conjunction with academic partners. The system was built using bleeding edge dotnet core 1.0 and entity framework (updated to 1.1 during development) services and back end with a React based front end, using bootstrap and SCSS. The application was built to run and scale on the Azure platform. Identity Server was integrated to manage access to the application suite from external applications. DevOps and planning were managed by VSTS.

## **The Pragmatic Agile Community (May 2016 – Mar 2017) [<http://www.pragmaticagile.community>]**

**THE MINISTRY OF TECHNOLOGY** – [C#4, Umbraco 7 CMS, ASP.Net MVC 4, Razor, HTML5, CSS3, SASS, JavaScript, jQuery, SQL Server 2012, NUnit, Moq, Git, IIS, Azure, Gulp] **Lead Developer, Founder**

Development of an Umbraco 7 based community platform including personalisation, membership, an application process and a blog. Agile hybrid project.

## **The Ministry of Technology (Jan 2012 - Present) [<https://www.minotech.co.uk/>]**

**THE MINISTRY OF TECHNOLOGY** – [C#7, Umbraco 7.11 CMS, ASP.Net MVC 5, Razor, HTML5, CSS3, SASS, JavaScript, jQuery, SQL Azure, NUnit, Git, IIS, Azure, Gulp] **Lead Developer, Project Manager**

Development of an Umbraco 7 based corporate website with a custom blog and twitter integration using best practice development methodologies including full unit testing and TDD. Kanban Project.

## **Rolefinder (Jul 2014 – Oct 2015) [<https://www.army.mod.uk/rolefinder>]**

**THE MINISTRY OF TECHNOLOGY / SOMO / CAPITA** – [C#4, MVC3, CSS3, SASS, HTML5, Responsive Design, JavaScript, HeadJS, Git, TeamCity, XML, WebDriver, NUnit] **Lead Developer, DevOps, Facilitator**

Reskinning of the Army Rolefinder website with Somo. The project involved significant investigation tasks on legacy code, remapping code to the new design full UI automation, DevOps work and facilitating the rest of the team as well as significant front end and back end development to match new functionality requirements for the redesign.

### **BBC Outside Broadcast Commentary Tool (Apr 2014)**

**THE MINISTRY OF TECHNOLOGY** – [C#4.5, ASP.Net MVC, Entity Framework 6 CF] **Developer, Consultant**

Development and implementation of a simple web tool to enable quick switching and logging of commentaries for camera switching when doing live outside broadcasts by communicating with the video editing software.

### **Dyson Sitecore Integrated Service / Sitecore website Support (Feb – Mar 2014)**

**THE MINISTRY OF TECHNOLOGY** – [C#4.0, Sitecore, NUnit, Moq, Mercurial] **Developer**

Development of Sitecore integrated services using an MVP Pattern and support of the Sitecore based web platform for Dyson.

### **Sian's Plan Mobile / Sian's Plan 3 (Apr 2013 – Jan 2014 / May – Jun 2014) [<http://m.siansplan.com>]**

**THE MINISTRY OF TECHNOLOGY** – [C#4.5, Backbone.JS, WebAPI, jQuery, Entity Framework 4.3 / 6, CSS3, LESS, HTML5, Responsive Design, RequireJS, SQL Server 2012, AJAX, NUnit, Moq, Jasmine, Mercurial, MSBuild] **Lead Developer, Tech. Consultant, Management Consultant**

Development of a web based mobile platform to initially partner and, as feature parity was achieved, eventually replace the existing SiansPlan platform. SPA architecture based on Backbone.js utilising an ASP.NET WebAPI backend to talk to the existing data and domain layers. Thorough TDD throughout on both the server side and JavaScript layers.

### **Sian's Plan (May 2012 – Apr 2013) [<http://www.siansplan.com>]**

**THE MINISTRY OF TECHNOLOGY** – [C#4, ASP.Net Web Forms, jQuery, Entity Framework 4.1 / 6, CSS3, SQL Server 2012, AJAX, Web Services, NUnit, Moq, Mercurial, Umbraco 4, Recurly, Azure VM] **Lead Developer, Tech. Consultant, Management Consultant**

Enhancement of existing food platform to include new features and to enhance the underlying architecture, in stages, to make the product more scalable. Detailed Technical Analysis work for planning long-term on-going development (including POC work into future MVC4 / WebAPI based model).

### **Funds Library (Sep – Dec2012) [<http://www.fundslibrary.co.uk>]**

**THE MINISTRY OF TECHNOLOGY** – [C#4, ASP.Net Web Forms, jQuery, knockoutJS, XSLT, Custom MVC, ASP.Net MVC, CSS, SQL Server 2008, AJAX, NUnit, Moq, Rhino Mocks, Git] **Developer**

Ongoing maintenance and business as usual tasks adapting in-house developed software for specific client needs.

### **Vicinity CMS (May 2011 – Feb 2012)**

**SKYROCK COMMUNICATIONS LTD. / EMO** – [C#4, Umbraco 4, ASP.Net WebForms, Entity Framework, CSS, JavaScript, AJAX, jQuery, SQL Server 2008, XSLT, Selenium WebDriver, NUnit, Moq, Mercurial, TeamCity, Batch, PowerShell, Asp.Net MVC 3, WCF, Apache, IIS] **Lead Developer, Scrum Master, Technical Architect, Development Manager**

Progressive development of a custom multi-lingual and multi-site CMS platform built on top of Umbraco 4, as well as POC work for later projected version using the MVC infrastructure of Umbraco 5. Best practice was applied with side projects and tools where possible. I built up the development infrastructure and team for this work from scratch and acted in a half management / half technical capacity.

### **Open Road (Mar – May 2011)**

**EMO** – [C#3, ASP.Net WebForms, Windows Forms, SQL Server 2008, Excel, Batch, SOAP, FTP, Subversion] **Developer**

Redevelopment of a customer event management system allowing customers to be imported and register online to attend automotive marketing events, then managed through a disconnected client application when at the event to track sign out of cars on test drives. Database synchronisation was managed through a mixture of SOAP services and FTP scripts. Kanban Project.

### **Nokia Music Web Store (Jun 2010 – Feb 2011)**

**NOKIA MUSIC / OVI** – [C#3, ASP.Net MVC, REST Services, WCF, AJAX, jQuery, WatiR, NUnit, Moq, Subversion, Documentum CMS] **Developer**

On-going development of the Nokia Music web store (<http://music.ovi.com>) and associated Public API ensuring best practices such as pairing, Unit Testing and TDD are followed throughout. Scrum Project.

### **Various UI Testing Frameworks (Jan 2009 – Jun 2010)**

**NOKIA MUSIC / OVI** – [C#3, WinForms, WatiN, Selenium, White, WCF, WPF Automation, MSTest, NUnit, Moq, Ruby, WatiR, Firefox, IE, Parallels, TFS, Subversion] **Architect, Developer, Trainer, (Product Owner)**

Development of an initial UI testing framework to enable abstracted testing across WCF and web-based clients as well as providing client independent testing of services. Running with a team of 2 primaries and additional outsourced resource to serve a development environment client base of over 50 development staff.

## Common Application Process (Aug 2007 – Apr 2008)

**S-COOL (Now UCAS)** – [C#2, ASP.Net WebForms, JavaScript, SQL Server 2005, SourceSafe] **Lead Developer, Architect, Scrum Master**

Common Application system for students, to be rolled out to several local authorities. Scrum Project.

## Area-Wide Prospectus (Aug 2006 – Dec 2007)

**S-COOL (Now UCAS)** – [C#2, ASP.Net WebForms, JavaScript, SQL Server 2005, SourceSafe] **Lead Developer, Architect, Scrum Master**

Area Prospectus system for students, rolled out to over forty local authorities. Scrum Project.

## Apprenticeships Online (Aug 2005 – Aug 2006)

**S-COOL (Now UCAS)** – [C#1.1, ASP.Net WebForms, JavaScript, XSLT, SQL Server 2000, SourceSafe] **Lead Developer, Architect, Scrum Master**

Apprenticeships system for students, rolled out to several local authorities. Scrum Project.

## Open Source Projects

In addition to my commercial project work, I also work on various open source projects. My own public projects are accessible at <https://github.com/ministryotech>. These include T4 Templates for building repositories for Entity Framework, Test help support libraries, MVC Route testing, a lightweight Backbone.js alternative, UI Automation frameworks and ASP.Net redirection for multiple hosts.

## Academic History / Training

### Work related training

- **AGILIFY:** Certified Scrum Master
- **PERCIPIENT:** Umbraco certified developer – level 1 (Umbraco 4.7 - expired)
- **NOKIA:** Effective Communications
- **RED TRAY:** Web Development Fundamentals / SQL Server administration and Development
- **QA:** Advanced programming with Visual Basic Enterprise edition v6
- VBA for MS Excel Introduction

### University of the West of England (September 95 – November 96)

- HND Business Studies (Information Systems) (1-year incomplete)

### Bristol Grammar School (September 88 – June 95)

- **A-LEVELS:** Computing / Business Studies / Physics
- **GCSEs:** Economics / Technology / Biology / Chemistry / Physics / History / English / English literature / Mathematics / French
- **OTHER:** RSA Economics II (Distinction grade) / Young Enterprise certificate

## Interests

I'm a Singer / Songwriter, guitarist, DJ and experimental music producer. I have a keen interest in technical and scientific developments particularly concerning AV. I also love classic analogue media such as vinyl and books. I consider myself an Agile evangelist and I am always considering new ways that teams can work more effectively. I am an involved member of the Bristol & Bath Scrum User Group and the Bristol JS Group.