



- Introduction

Edward is an experienced and passionate Scrum Master with a strong and current technical background . He has 9 years' experience managing, designing and developing highly successful solutions to complex problems. As a team leader and Scrum Master, Edward has proven his ability to manage end to end delivery and inspire and motivate a team.

Edward is seeking a role that enables him to use his experience in driving forward technological innovation and agile best practice.

- Experience

Scrum Master @ Transport for London Apr 2015-Present



Edward was the Scrum Master for TfL Online's primary delivery stream, where he has helped the team **embrace agile** and **adopt a culture of continuous improvement**. Following his success here he was asked to repeat for a **new team** where he has been instrumental in **establishing an empowered motivated team, engaged in agile best practices**. He has **set up tooling (JIRA) and processes** to help the team **recognise their self proclaimed responsibilities** and **facilitate** the interactions they identified would enable them to be **self organising**. He has;

- Improved the teams discovery process to ensure a healthy well groomed prioritised backlog
- Empowered & motivated the team by facilitating the team deciding how they want to work (team identity, guiding principles, ground rules etc.)
- Facilitate and encourage continuous improvement through positive and open retrospectives, followed up with clearly defined and actions that are tracked in JIRA
- Maximised the use of tooling and reporting to encourage collaboration, simplify workflow, enable clear and concise reporting to senior management and overall reduce time spent on non-delivery related effort
- Established a culture of trust within the team, within senior management and senior stakeholders

Edward was also part of a small working group with the aim of establishing an **organisational agile transformation** for the whole of TfL Online.

Technical Architect @ Transport for London Oct 2014-Apr 2015



Following successful delivery of the new TfL website, Edward was employed by TfL Online as a technical architect responsible for technical oversight and design of a number of new projects.

WebCAT - A map-heavy application used to support transport and borough planning process. It utilises the output of modelled data to inform on the accessibility of the city. Edward initially **led a discovery phase** for this project, working closely with stakeholders to understand the requirements and technical challenges. He was responsible for the majority of the **proposal** which was accepted by stakeholders and senior management. Following acceptance, Edward was **responsible for designing the solution**, the key components of which were; a **custom tile server (WebAPI, SQL Server)** which integrates with the **Google maps API** to overlay dynamic accessibility information and static boundary information, an **efficient ETL process** for loading the large amount of data required (including geo spatial transformation), a **PDF and PNG export** service for exporting reports from the system and a **responsive website (MVC4, JavaScript)**. **TeamCity** was used for continuous integration (**CI**) and continuous deployment (**CD**) to **Amazon Web Services**. Phase 1 of the project has recently delivered and can be seen here - <https://tfl.gov.uk/WEbCAT>. The project recently won The **AGI Award** for Excellence in Research & Development .



Edward also played a key role in **promoting agile**, motivating and facilitating the development team as well as contributing towards the code and peer reviewing the team's work.

Crowding - Edward worked with the Travel Demand Management Team to understand how TfL data could be used to inform users about Crowding on the network. He analysed a number of potential data sources and produced a recommendation and proof of concept (using **Node.js**) to help inform the debate.

As technical architect Edward's role included the following:

- Designing optimal solutions that meet the requirements, environment and available resources (both human and financial)
- Ensuring solution performs, is scalable and maintainable as befits
- Technical Assurance for other TA's work
- Ensure developers apply best practice
- Support developers and represent technical challenges to the TDA
- Contribute toward the TDA (Technical Design Authority) meeting

Senior Developer @ MoD Oct 2013- Apr 2014



Edward played a critical role in the delivery of the multi-award winning responsive TfL Website (tfl.gov.uk) and API (api.tfl.gov.uk) (a complete greenfield re-write in **MVC4, WebAPI, Entity Framework, SQL Server**, hosted on **Amazon Web Services**). As a back-end developer he was responsible for the **design, development and optimisation** of a number of **ETL** tasks using **C#, SSIS and SQL**, as well as designing the restful **API (Web API)**. Edward also contributed towards the front end (**MVC and JavaScript**). **TeamCity** was used for continuous integration (**CI**) and deployment (**CD**) to **Amazon Web Services**.

Technical Team Lead/Lead Developer @ MoD 2010-2013



Edward led a team of up to 14 **.NET, Java and Oracle developers** working on client site delivering a business critical, highly available large data warehouse exploitation suite. This suite is a **3-tier SOA stack**, with 3 **.NET** client applications using a combination of **WinForms** and **WPF** components, a middle tier comprising a mixture of **Windows Services, .NET 2 web services, WCF services and Java services and an Oracle 11g back-end**. As technical team lead Edward's role also included the following:

- Estimation and Planning (MS Project) - estimation and planning taking into account skill-set and experience of the team.
- Use of Agile development practices - RUP, extreme programming.
- Risk, Issue and Dependency management - good upward reporting.
- Assurance - code/document reviewing, initiating and running design workshops.
- Senior stakeholder management.
- People management - managing team skills, aspirations and motivation, conducting formal performance review.

Senior Developer @ MoD 2008-2010



Edward was responsible for designing and developing front end and back end components of a collaborative workspace application in **C#** exploiting a **large data warehouse**. Additionally Edward's responsibilities in this role included:

- Promote best practice - use of design patterns, code review, continuous integration (CI) and test driven development.
- Setup and run user feedback sessions, using prototypes and wireframes to solicit debate and encourage ownership.
- Design components for junior developers to implement. Support, advise and encourage junior members of the team.

- Skills

Agile/Leadership: Scrum Master (CSM certified), Leadership (completed the Harvard New Leader Program), Mentoring, Coaching, Planning, Performance Management, JIRA Administration, user story workshop, agile estimating, release planning, planning poker, retro, analytics, ux, user testing, SAFe, DAD, SoS

Development: C#, .NET, MVC 4, Web API 2, SQL Server, LINQ, GIT, TFS, Amazon Web Services (AWS), CI (Team City), JavaScript, React.js, Google Maps API, SSIS, Xamarin, Mongo, ESRI, XSLT, WCF, Web Services, Django, UML, Python

- Education

University of York - 2001-2005

MEng in Computer Systems and Software Engineering

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- Extra

Edward is currently working with the North Herts Sanctuary (a local homeless charity) to replace their website to help them better engage with both service users and potential supporters.

In addition to Edward's professional experience, he is designing and building an app using **Xamarin** with a **Web API** and **Mongo** backend and has also built many personal projects using **JavaScript** frameworks including **React.js** and **Knockout.js**.