

# CURRICULUM VITAE

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(.Net technologies)



(VB 6.0 Technologies)

## GERRY CONLON

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**M.Sc. Information Technology/Computer Science  
HND Computer Studies (Distinction)  
SCOTBEC Certificate Business Studies (Distinction)**

## PROFESSIONAL QUALIFICATIONS

### 2007 Microsoft Certified Professional Exams (MCSD.NET / MCAD.NET)

1. Developing and Implementing Windows Based Applications with Microsoft Visual C# .Net and Microsoft Visual Studio.NET
2. Developing Web Applications with Microsoft Visual C# .NET
3. Developing XML Web Services and Server Components with Microsoft Visual C# and the Microsoft .NET Framework
4. Designing and Implementing Databases with Microsoft SQL Server 2000 Enterprise Edition

### 2001 Microsoft Certified Professional Exams (MCSD)

1. Designing and Implementing Desktop Applications with Microsoft Visual Basic 6.0
2. Designing and Implementing Distributed Applications with Microsoft Visual Basic 6.0
3. Analysing Requirements and Defining Solution Architectures
4. Building Web Applications with MS Visual Interdev 6.0.

### 2017 Disclosure Scotland (Basic level)

**Baseline Personnel Security Standard Clearance BPSS - (Exp. June 2020)**

## DETAILS OF EDUCATION

**1987 - 1988 University of Glasgow**  
M.Sc. In Information Technology / Computer Science

**1984 - 1987 Glasgow Caledonian University**  
Higher Diploma in Computer Studies (with Distinction)

**1983 – 1984 Central College of Commerce**  
SNC in Business Studies (with Distinction)



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## SUMMARY OF SKILLSET

Area	Skills Acquired
<b>Programming</b>	C#, C++, ASP.Net, ADO.Net, Microsoft Azure Services (inc. File Services/Service Bus/Message Queues etc), XML Web Services, WinForms, Entity Framework, Entity Framework Core 2.2, Razor, MVC3, MVC4 & MVC5, WebApi, WebApi 2, Azure Api Management, Linq, AJAX, .Net framework (all versions), .Net Core (all versions), Docker, Azure Functions, Azure Service Bus, Azure DevOps, AngularJs 1.x, Angular 2/4/8, VueJs v3 with Composition Api, Typescript, Reactive Forms & Template Driven Forms, RxJs Observables, NgRx Store , Open Layers Api for Map Integration, Microsoft Dynamics CRM, jQuery, Bootstrap, Foundation 5, Kendo-UI, Angular Materials, SCSS, nServiceBus, XSLT, HTML5, CSS3, Json, Knockout, VBScript, JavaScript, VBA (MS Access / Excel) Visual Basic 6.0, 5.0, 4.0 and 3.0, MTS, COM+, COM, DCOM, ActiveX, ODBC,ADO, ASP, IIS, HTML, DHTML
<b>Database</b>	SQL Server 2005, 2008, 2012, 2014 and 2016, 2017, 2019 T-SQL, MySql, InfluxDb, Microsoft Dynamics CRM, Oracle 7,8i,10g,11g, Oracle Data Integrator (ODI / ETL) / Jython, PL/SQL, Sybase, SQL Server Geospatial Queries
<b>Reporting</b>	SSRS (SQL Server Reporting Services)
<b>Data Integration</b>	SSIS, Oracle ODI, ODR, ETL
<b>Testing &amp; Build</b>	MS Test, NUnit, Moq, Jest, Jasmine, Selenium, Cypress E2E, Playwright, Continuous Integration Server (TeamCity), Octopus, Azure DevOps, Assembla, Nant
<b>Dependency Injection</b>	Unity, Castle Windsor, .Net Standard
<b>Methodologies</b>	RAD / Scrum – Agile Development Methodologies / SOLID principles of OOP, Sarbanes-Oxley (SOX) development processes & methodologies, ISO 20022 messages, Command Query Responsibility Segregation (CQRS)
<b>Source Control</b>	Git, MS Team Foundation Server (TFS), Subversion, ClearCase, MS SourceSafe
<b>Other</b>	Valid Disclosure Scotland Certificate available

## WORK EXPERIENCE

**Nov 2020 –  
Current**  
(CONTRACT  
with 5  
extensions to  
date)

### **Blackford Analysis Ltd**

(Primary Location Edinburgh, but 100% remote)

#### ***App Gallery / Application Marketplace***

I am a senior web developer working on a greenfield development involving the creation of an App Gallery and Application Marketplace to which independent vendors can add bespoke applications for use in the medical imaging arena.

The Marketplace and App Gallery provides customers, such as radiologists, access to review a curated set of clinical applications, such as AI-enabled solutions, that can help simplify and drive efficiencies throughout the radiology workflow and as part of a larger disease management strategy. Customers can browse for applications (apps) and packages on the Marketplace by specialty or vendor and purchase apps to integrate into their workflow. The Marketplace and App Gallery allows representatives to configure the apps customers have purchased and track utilization and performance over time via telemetry graphs which display real time and historical data stored in an InfluxDb database.

The software and associated Api's, Databases etc. run on the Google Cloud Platform (GCP), and the user interface is built in VueJs version 3.0 with the Composition Api. All database interaction is done via bespoke public and private Web Api services – the majority of which I designed and implemented.

Technologies: VS2019/VsCode, C# 8, .Net Core 3.1/.NET 5.0, MVC (some), WebApi 2.2, JWT endpoint security, VueJs and Composition Api, Typescript, Node (16x)/ Npm, Entity Framework Core, MySQL, InfluxDb, Docker, Jenkins for Continuous Integration, NUnit, Cypress E2E, Automated Test/Build, Assembla (Agile)

**June 2019 –  
Aug 2020**  
(CONTRACT)

### **Transport Scotland**

(Primary Location Glasgow, but 100% remote)

#### ***APMS – Road Asset Management System for Scottish Trunk Roads***

I was a senior web developer working on the Scottish Trunk Roads Asset Management System (APMS). This was a completely greenfield solution for Transport Scotland and was intended to replace their existing legacy system by August 2020.

I had sole responsibility to design and implement the Accidents subsystem which handles all historical and future data associated with accidents which had/will occur on the Scottish Trunk Road Network, and ultimately produce reports and analysis of that data which will be presented to the UK government for accountability, media reports etc.

The system integrates heavily with Open Layers mapping software, and accidents are recorded and displayed on vector layers on the Open Layers map. Much of the functionality is accessed via interactive maps or by running analysis on data and then displaying on maps etc.

Historical accident data spanning a period of around 50 years is imported via ODR/ETL processes and is purified for current day usage. Accidents are recorded with GPS easting/northing coordinates, allowing for accuracy in plotting, geospatial analysis etc. Some of the sub-systems I developed are outlined below:

#### ***Collision Query Analysis***



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In order to determine how safe each part of the Trunk Road Network is or if a section potentially requires upgrading to make it safer, I developed the Collision Query subsystem which allows users to isolate sections of road graphically by drawing a shape (polygon) around the section on a map and therefore encapsulate any collisions recorded in that section. Using geospatial queries, the user can then interrogate all collisions recorded in that road section over a specific period and add filters such as road name, seriousness of accident etc.

### **Accident Cluster Analysis**

Probably the most important subsystem, the Accident Cluster Analysis subsystem allows the user to perform an analysis of all roads within each operational unit in the Scottish Trunk Road Network and identify potential accident “clusters” i.e. sections where more than “average” accident numbers have occurred. Each cluster is identified within a pre-defined cluster band within which the serious and number of accidents is key, and the analysis allows the section operators to plan any remedial action required to make that section of road safer etc. This analysis is produced for the Transport Scotland appointed operational companies and is also reported to the UK government for accountability.

This subsystem relies heavily on Azure Functions/Service Bus processing to allow for disconnected/parallel processing due to the large data processing requirement. SignalR is used to feedback progress to the UI.

### **Fatality Notification**

When a fatal accident occurs, information is recorded at the scene by Police Scotland however there are various additional processes that are in place in order to ensure that the correct information is recorded within specific timescales as imposed by the requirements of the Road Traffic Act. This subsystem completely automates these processes and ensures that the workflows required are completed within the required timescales etc. If there are delays in the workflow, these are highlighted, and notifications/emails are sent to the appropriate team members to ensure resolution of these issues.

Technologies: VS2019, C# 8, MVC, WebApi 2.2, Angular 8, Typescript, Reactive/Template Driven forms, RxJS Observables, NgRx Store, Node (12.13)/Npm, Kendo-UI, Angular Material, Selenium for UI testing, SignalR, Entity Framework Core 2.2 / 3.1, SQL Server 2019, Azure Functions, Azure Service Bus, Azure DevOps, Continuous Integration, Automated Test/Build, Open Layers Api for Map Integration

**May 2018 –  
Jun 2019**  
(CONTRACT)

### **Origo Services Ltd**

(Primary Location Edinburgh, Edinburgh Park – 75% remote)

I was a senior developer working on Origo’s Pension Transfer software. My main remit was to add new functionality and update existing functionality in order to ensure that the software complies with recent changes in the pension regulations imposed by the UK government. The main systems I worked on were as follows:

### **S3**

Origo’s Shared Security System for the Origo Transfer Service applications. I worked on a feature to ensure passwords weren’t sent out via email and users were redirected back to the app to set a new password.

### **Bulk Transfers**



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This extension to the Origo Transfer Service facilitates pension cash transfers for multiple members (e.g. workplace pension schemes). I worked on the email notification feature.

#### **Re-Registrations**

This extension to the Origo Transfer Service facilitates in-specie ISA, GIA and pension transfers. I worked on various pieces related to the UK Funds Market Practice 3.0 upgrade.

#### **OTS Integration**

The B2B (Business to Business) integration system for the Origo Transfer Service. I upgraded all the SWIFT and B2B messages conversions for the UK Funds Market Practice 3.0 upgrade. The message formats conform to ISO 20022 specifications and are defined by the industry regulators and passed between external providers allowing them to communicate using the same fundamental business language.

Technologies: VS2019, C# 6, NET Framework 4.8, [ASP.NET](#), MVC, AngularJs, jQuery, WCF, WebApi 2, Entity Framework, SQL Server 2018, ISO 20022 messages, Command Query Responsibility Segregation (CQRS)

**Jan 2018 –  
April 2018**  
(CONTRACT)

#### **NHS Education for Scotland, Digital Transformation Group – Senior Web Developer**

(Primary Location Glasgow)

##### ***Turas Learn***

I was a senior developer within a small team, working on an existing application for the NES digital transformation group. My main responsibilities are to maintain and enhance the existing system which provides a portal of learning resources to NHS staff. The application is part of the NHS digital learning platform and provides Azure AD/B2C single sign on etc. The Administration journey is written in AngularJs and the user journey was developed using MVC and access to resources is via permission groups and role-based security.

Technologies: VS2017, C# 6, MVC, WebApi 2, AngularJs, Entity Framework 6, Microsoft Azure Services, SQL Server 2014, Google Analytics

**April 2017 –  
Jan 2018**  
(CONTRACT)

#### **Scottish Enterprise, Digital Transformation Project – Senior Web Developer (Multiple Extensions)**

(Primary Location Glasgow)

##### ***Funding & Support Web Platform***

I was a senior developer within a small team, working on a greenfield development for the Scottish Enterprise (SE) Funding & Support group. My main responsibilities were to design and implement a solution to allow electronic application for SE Grants to their customers. The application consists of a main “My Account” area from which a customer can access a number of associated areas specific to their relationship with SE, and allows single sign-on and provides a process for the user to apply for funding for projects by completing online questionnaires and uploading documentation to support their application in real time. The solution combines standard .Net front-end technologies with Microsoft Azure Storage and Microsoft Dynamics CRM for client data storage and application process flow, and is a flagship venture for SE forming the basis of the SE Digital Platform.

Technologies: VS2017, C# 6 (MVC), Angular 4, TypeScript, WebApi 2, Azure Api Management, Microsoft Dynamics CRM, Entity Framework Core, .Net Core 1.1 & .Net Core 2.0, .Net 4.5.2, Microsoft Service Fabric, Microsoft Azure Services (File/Message Queues/Service Bus etc), SQL Server 2016



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**Oct 2015 – March 2017** (CONTRACT) **NHS Education for Scotland, Digital Transformation Group – Senior Web Developer (Multiple Extensions)**  
(Primary Location Glasgow)

**Turas V3**

I am a senior developer within a small team, working on a greenfield development for the NES digital transformation group. My main responsibilities are to design and implement a solution to allow electronic recording of training records for doctors who are working through their training foundation years. This solution is a flagship venture for the NES Digital Group, and will form the basis of the NES Digital Platform which is already being hailed as the front-runner in digital transformation in Scotland by the Scottish Government.

Technologies: VS2015, C# 6, MVC, WebApi 2, Entity Framework 6, Microsoft Azure Services, SQL Server 2014

**Sept 2015 – Oct 2015** (CONTRACT) **Redeem Plc – Senior Web Developer / Consultant**  
(Primary Location Bathgate)

**O2 / Three Web Sites**

Short term contract role to push a required deliverable over the line. Added functionality to the O2/Three websites to allow users to sell their old gadgets online via the O2/Three websites.

**Mar 2015 – Sept 2015** (CONTRACT) **IBI Group – Senior Web Developer (Multiple Extensions)**  
(Primary Location Glasgow)

**Traffic Scotland**

*Main Web Site*

I enhanced the Traffic Scotland website (<https://trafficscotland.org/account/myroutes/>) by creating a plug-in which provides personalisation and route management capabilities to all registered users. Users now have the ability to log in to the website and create any number of personalised named routes. Each route can be recalled and displayed on a Google map with start and end points, suggested alternative routes and journey times etc., and the user can add or remove information layers such as live incidents on the route, road works, traffic cameras, weather stations etc. The user also has the ability to drill down on the layers and retrieve further detailed information e.g. live images from traffic cameras showing issues on the route etc. The existing site was developed using Web Forms however the new plug-in integrated standard Html forms with AngularJs, WebApi for database access, and extensive use of the Google Maps Api.

*Mobile Site*

In addition to the standard web site, all mobile device access is re-directed to the Traffic Scotland Mobile site which required upgrading to utilise the new personalisation module. Functionality is provided as above however the presentation is optimised for mobile device usage. This site was predominately developed using .Net MVC but again, in order to re-use much of the mapping functionality created for the desktop site, I introduced standard Html forms with AngularJs and database access via WebApi methods.

*CMS Enhancements - Incident Management*

Post completion of the above work it became apparent that the information supplied by the Incident Management System (IMS) wasn't very accurate on most occasions. This led to a new piece of work to identify these IMS generated

incidents and to allow an operator to review and clean this data via the Traffic Scotland CMS prior to it being applied to routes etc.  
The CMS is an MVC based system and I enhanced it to allow for display and correction of the IMS generated incidents. Mapping functionality is provided via the Google maps Api, to allow the user to correct the incident's latitude/longitude values by zooming in on the location and dragging a map locator icon to the correct location.

#### *Gritter Vehicle Management*

I developed a new CMS module that allows the operators to manage the allocation of gritter trucks during severe weather. This was developed using MVC and WebApi.

#### **Highways Agency**

I created a generic framework for a new CMS web site for the Highways Agency. The initial framework consists of a CMS and 4 plug-ins however the generic architecture allows additional plug-ins to be created with minimal coding and knowledge of the underlying database etc.

**Apr 2014 –  
Mar 2015  
(CONTRACT)**

#### **Lockheed Martin – Senior Web Developer (Multiple Extensions)** (Primary Location Glasgow)

##### **Tracer**

I was a lead architect in the design team and made a substantial contribution to the definition and construction of a new internal website and associated middleware systems for National Air Traffic Systems' (NATS) "Tracer" project. The site administration and setup was designed to run as a desktop web application however the main student / mentor interaction was done via iPads and therefore catered for offline caching / security issues etc.

The system replaced an overly complex paper based workflow associated with the NATS' Air Traffic Controllers (ATCO) technical training and competency licencing requirements, and was commissioned to improve efficiency, reduce costs and eliminate exposure due to insufficient and incomplete training, ATCO licence expiry etc.

This web based application was built using the .Net 4.5 framework and the core architecture was built around Entity Framework v6.1.2 & SQL Server 2012, MVC 5, WebApi 2.2 with RESTful services, AngularJs (inc. UI-Router and UI-Bootstrap), SSRS & SharePoint integration, and many other support tools e.g. Unity, NUnit, Jasmine, Log4Net, AutoMapper, Microsoft Owin / OAuth (security) etc.

##### **Airport Capacity Management (ACM)**

I was a lead architect in the design team and made a substantial contribution to the definition and construction of a new commercial website and associated middleware systems for National Air Traffic Systems' (NATS) "Aircraft Capacity Management (ACM)" project.

The system allows NATS to extend its services to its customers by providing consolidated access to a number of NATS internal disparate systems which provide airport capacity modelling and analysis, ability to initiate runway simulations based on variable parameters on a per-airport basis, critical license maintenance, and dynamic load balancing of resource intensive applications including fault tolerance, reporting etc.

The information derived from the portal is used to inform key operational decisions that will allow airports to maximize their already constrained air side capacity.

This commercial web based application was built using the .Net 4.5.1 framework and the core architecture was built around Entity Framework v6.1.2 & SQL Server 2012, MVC 5.1, WebApi 2.2 with RESTful services, AngularJs, Angular UI-Router, Angular UI-Bootstrap / Foundation 5 components, and many other support tools e.g. Unity, NUnit, Jasmine, Log4Net, AutoMapper, Microsoft Owin / OAuth (security)

**Oct 2013 –  
Apr 2014**  
(CONTRACT)

**Royal London Group**  
(Primary Location Edinburgh)

Senior web developer working on a new commercial website and associated middleware systems for Royal London's new "Direct to consumer" business being launched in later this year. This is a green field project and I have been involved at each stage of the development lifecycle. Development activities have spanned the Service Oriented Architecture layers (SOA), REST service layers, customer facing website design including integration with CRM, "Bank Wizard", Hopewiser Address Lookup software and interfacing to document workflow systems via nServiceBus technologies.

As a project team we practice Agile software development (Scrum), and are using techniques such as Behavior Driven Development (BDD) using Specflow, SOLID principles of OOP including dependency injection using Castle Windsor etc.

**Nov 2012 –  
Oct 2013**  
(CONTRACT)

**Amor Group**  
(Primary Location Glasgow)

Senior Technologist responsible for data migration and import/export interface design for Edinburgh and Stansted Airport's data separation projects. (Transition from BAA systems to in house data warehouses)

This role involves intense use of Oracle Data Integrator (ODI) and SQL Server Analysis Services (SSAS) to facilitate the migration of existing BAA operational databases to Amor's Chroma product. As part of the migration, the data is transformed (ETL) from the current traditional hierarchical database into a multi-dimensional data warehouse resulting in a more efficient and reliable data store for the corresponding Business Intelligence (BI) environment.

I had to redevelop all existing input / output interfaces which carry operational data to / from the airports clients and regulatory bodies. These interfaces were written to run as scheduled jobs in ODI.

**Oct 2012 –  
Nov 2012**  
(CONTRACT)

**Aggreko (UK)**  
(Primary Location Glasgow)

Short term contract to deliver a responsive web solution for an existing product.

**Sep 2008 -  
Sep 2012**  
(CONTRACT)

**Baillie Gifford & Co. (Contract + 4 Extensions)**  
(Primary Location Edinburgh)

.Net Technical Architect & Technical Team Lead – UK's largest independent, privately owned, Fund Management company. Various projects as detailed below.

**Skills Summary:** C#, .Net framework 3, 3.5 & 4, Linq, WPF, WCF, Entity Framework, Razor, MVC3, MVC4, SSRS, HTML5, CSS3, jQuery, Json, Knockout, Team Foundation Server (TFS), MS Test, SQL Server 2008, Oracle 10g / 11g, PL/SQL Developer, ODAC, Devart dotConnect, NuGet, Krypton, KendoUi & Telerik control suites, Fund Management, Bonds, Futures, Currency Forwards, Equities,



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Derivatives, RAD, Scrum, Agile methodologies, actively practicing SOLID OOP methodologies.

#### ARCHITECTURAL ASSIGNMENTS

##### **SQL Server Reporting Services (SSRS)**

I designed and implemented Baillie Gifford's corporate reporting strategy based on SQL Server Reporting Services (SSRS). Initially, all existing company reports were developed in Oracle Reports / Discoverer and Client Side .Net technologies which were becoming increasingly unwieldy and difficult to maintain. In addition to this fundamental architecture switch, I installed and customized the new platform, transitioned all existing reports to SSRS, and designed and implemented an SSRS Custom Data Provider (bolt on to SQL Server) to allow the new SQL Server based reporting platform to harness the power of the underlying Oracle database servers which afforded Baillie Gifford the benefits of both technologies.

##### **Windows Communication Foundation (WCF):**

The need for customer data security and compliance with extensive financial regulations forced Baillie Gifford to rethink their existing data access strategies. I reviewed the existing methodology which involved the use of ODAC on desktop PCs as an interface to the various Oracle databases, and designed and implemented a replacement architecture based on Microsoft's Windows Communication Framework (WCF). This allowed me to re-locate the ODAC data layers from the client PCs to a remote server which substantially enhanced security, maintainability, release management etc.

This re-design has been in place for around two years now however, the WCF layer's performance is now proving to be a concern as customer expectations for data throughput have greatly increased, and Microsoft's performance claims now appear questionable. My current assignment involves the redesign of the data access layer and the subsequent replacement of WCF with Devart's dotConnect data access software.

##### **Web Development Framework**

I was instrumental in the design and implementation of the Baillie Gifford Web Development Framework. This was created to ensure that all in-house web development complies with Baillie Gifford development practices, and to force uniformity across the development platform. The platform consists of pre-configured .Net templates offering standard web development toolkits / NuGet extensions and approved third party libraries such as jQuery, KendoUi, etc.

#### PROJECTS

##### **Windows Presentation Foundation (WPF):**

This was a 6 week assignment resulting in the production of a proof-of-concept WPF application replicating the core UI components used within the existing Front Office System (FOS). The application was presented to technical managers within the IT department who decided not to proceed with a full scale implementation due to time constraints and lack of in-house developer knowledge.

##### **Front Office Client Restrictions (FOS Restrictions):**

I joined the FOS Restrictions project group early in the requirements gathering phase and in addition to the business analysis role, I was responsible for the design of the prototype and "bare bones" system using RAD (Rapid Application Development) techniques. As the project progressed, I focused on the architectural aspects of the system from a .Net perspective, and held the role as Technical Architect / Lead Developer for the duration of the project (2 ½ years).

This core system focused on the pre-trade aspects of Portfolio Management whereby, prior to making a change to a portfolio by ordering the purchase or sale of an instrument, the Institutional Clients Department (ICD) could create client specific and Baillie Gifford restriction rules applicable to each portfolio. These rules would later be executed against each portfolio or group of portfolios to ensure that any potential orders didn't result in either the portfolio or Baillie Gifford being in breach of the rules. The application provided an interface to allow dynamic rule definition based on client / Baillie Gifford specifications, and rules were applicable to equities, bonds, futures, currency forwards and swap orders. They were finally converted to "real" code that was either run in real-time against the portfolios or, additionally, as part of a scheduled job.

The project covered many aspects of .Net WinForms development including extensive use of design patterns e.g. Model-View-Controller (MVC) / Dependency Injection techniques, Data Binding, Events & Delegates, SQL Server Reporting Services (SSRS), Oracle transaction support, Linq, extensive custom control design / development, integration of third-party libraries e.g. Krypton Ribbon Controls, Telerik Winform controls etc.

### **Client Reporting System (CRS)**

This was a two month secondment during which I created a framework for dynamic SSRS report generation. The framework allowed dynamic creation and placement of filter and viewer components which made future development, maintenance and release much easier.

### **Swaps**

A two month secondment during which I created complex SSRS reports to convey management level information (MI) based on Swap trading.

### **Client Servicing Web Platform**

A three month secondment during which I created Baillie Gifford specific theming stylesheets (CSS) applicable to the KendoUI controls used within the Client Servicing website. In addition, I was involved in web page development using Razor, MVC3 / MVC4 and the Entity Framework, and I also developed and integrated a suite of complex SSRS reports to present MI information in both linear and graphical formats.

### **Internal Training & Technical Workshops**

As .Net Technical Architect and Lead Developer on various core products, I developed and delivered many of the key internal training modules available to the development teams to enhance their understanding of the development standards and techniques required by Baillie Gifford. Some of the training modules I developed included SSRS design and development, MVC advanced coding techniques, unit testing (MS Test), custom control development and design etc. In addition to this formalized training, I conducted various technical workshops to disseminate particularly useful technical "discoveries" to the development team members on an ad-hoc basis. Some examples are the implementation of the Oracle Data Provider Extension for SSRS, Disconnected Transactional .Net Dataset Processing via Web Services / Oracle, A Mechanism for the Beautification of Oracle Error Messages etc.

### **Common Components and Style Guide Sub Groups**

I lead both of these subgroups which define processes for application user interface design and corporate styling to be applied to all WinForm applications developed within Baillie Gifford. Although the Style Guide Sub Group is now no longer active as all corporate styling has been defined, the Common Components sub group is still active and its primary purpose is to identify potential common

controls or pieces of code for reuse, and to add these reusable objects to our custom control palette (which we created initially). The outcome of the Style Guide Sub Group was to create a custom colour control extender component for skinning all forms / controls thus providing standard theming throughout Baillie Gifford.

**Jan 2008 -  
Sept 2008  
(CONTRACT)**

**Real-Time Engineering (Contract + 1 Extension)**  
(Primary Location Glasgow)

Senior Systems Developer – Scottish Government’s Childcare (Scotland) and Landlord Registry (Scotland) Websites

**Skills Summary:** C# / ASP.Net (1.1, 2.0 and 3.5) applications, SQL Server 2005 with Reporting Services / NUnit / Selenium/ Continuous Integration Server / Subversion source control

**CISSS (Childcare Information Services Scotland Software)**

I was responsible for the upgrade and support of the Scottish Government’s Childcare Website which provides free, impartial information on childcare and pre-school education services throughout Scotland. The site comprises both a public and private view.

[www.scottishchildcare.gov.uk](http://www.scottishchildcare.gov.uk)

**Landlord Registration Central Online System for Scotland**

I am responsible for the upgrade and support of the Scottish Government’s Landlord Registry website which is used to record private Landlord activity throughout Scotland. The site comprises both a public and private view. The site was originally developed using the .Net 1.1 framework but I’ve recently converted this to .Net 3.5 with SQL Server 2005 Reporting Services integration to enhance the performance and to make it more maintainable.

[www.landlordregistrationscotland.gov.uk](http://www.landlordregistrationscotland.gov.uk)

**June 2007 -  
Jan 2008  
(CONTRACT)**

**Prudential (Contract + 2 Extensions)**  
(Primary Location Craigforth, Stirling)

Workstream Lead - SAL Imaging Systems - Citrix Migration

**Skills Summary:** C#/C++/VB6.0 applications & services, WebServices, MS Excel/Access VBA macros and Workflo applications, Project Management

**SAL Imaging System – Citrix Migration – Data Centre Migration Project**

I was responsible for the successful migration of Prudential’s SAL Imaging suite from Craigforth to an off-shore Data Centre in Lansing (USA).

The SAL Imaging suite comprises of nine Enterprise Level, high-dependency applications which The Business utilise to manage the flow of customer documentation (Application forms, Written Communication etc.) within each business area.

**Technically:**

I subjected each application being migrated to a "discovery" process which I created, to determine the technical footprint and external dependencies of the application. In order to prove that it could be migrated, I created a pseudo Citrix environment using VM Ware and re-installed and configured the application under that environment. This allowed me to identify and implement the array of technical changes required to allow the application to run successfully under Citrix. The majority of changes identified related to hard-coded configuration values, DSN/In-line Connection Strings, external drivers (e.g. Printer / PDF), VBA Macros etc. and in each case required a re-write of that particular component. Components ranged

from C#/C++/VB6.0 applications & services, WebServices, MS Excel/Access VBA macros and Workflo applications.

**Project Management:**

I had to

- set realistic targets for the above discovery processes
- ensure that my team of 4 people delivered to the agreed timescales
- ensure that our efforts were in line with the overall Data Centre Migration project plan given that we were a very key component to the success of that plan,
- manage any slippage as efficiently and as accurately as possible

**Apr 2006 -  
02<sup>nd</sup> Jun  
2007**

**JP Morgan (Contract + 2 Extensions) – Credit & Rates**  
(Primary Location London Wall)

(CONTRACT) Consultant / Technical Team Lead/ Project Manager/ Technical Architect

**Skills Summary:** VBA, Visual Basic 6.0, SQL Server, Sybase, C#, MS Access / Excel, DTS, RAD, Oracle, Project Management

**Global SQL – Front to Middle Office reconciliation application. R2 – Primary Risk Calculation Engine for Front-Office validation. Trader FE – Trader Estimation Tool.**

GlobalSQL is the primary application used in JMP Middle Office. The application encompasses 180 users including 60 traders. It performs monitoring & reconciliation of trader estimates versus actuals plus reconciliation against the General Ledger. Output reports presented at JPM Board level and subsequently used to allocate shares / bonuses etc.

**R2** is the middle office primary risk calculation engine which is used to validate the traders' estimates at various points throughout the day.

**Trader FE** is a trade estimation tool which allows the Traders to provide an estimate of their daily activity. This estimate is then monitored by middle office throughout the day and allows immediate escalation of any unforeseen deviations to the Trader so that intra-day corrections can be made where necessary.

As Technical Team Lead, my responsibilities included migration of badly developed RAD application suite from London to Glasgow, major re-write of SQL Server backend to conform to Sarbanes-Oxley (SOX) Software Development Standards, rewrite and support of front-end business logic, On-boarding & Recruitment responsibility, and eventual packaging / handover to Offshore resource. Additionally, I was responsible for the strategic direction and daily operational support of all three RAD applications which include - full project life cycle development, technical guidance to a team of 6 developers, and general project management. I also designed and introduced new software build and release procedures to comply with SOX requirements, which eventually allowed the project to achieve SOX accreditation from the external PWC auditors.

**May 2004 -  
Apr 2006**  
(CONTRACT)

**JP Morgan (Contract + 4 Extensions) – Equities**  
(Primary Location Bournemouth/Mumbai)

Consultant / Technical Team Lead / Project Manager / Technical Architect

**Skills Summary:** VBA, Visual Basic 6.0, SQL Server, Sybase, C#, MS Access / Excel, DTS, RAD, Project Management

**Client Money - Back Office Reconciliation Application.**

Primary application used in JPM Back Office. 50+ multi-site users. Originally built on MS Access, the application controlled the application of rules governing JPM's handling of "Client Money" which is heavily regulated by the FSA. Overall objective was to eliminate breaches to the FSA regulations and avoid heavy penalties imposed on JPM.

Project was to upsize to MS Access with Sybase backend and eventually C# .NET front-end. I had full project / technical management responsibilities and was solely responsible for its re-write and delivery.

**Mantrap – Corporate Tax Pre-Calculation Application.**

Single user application originally built on MS Access / Excel but later migrated to MS Access with Sybase backend due to "number crunching" requirements. Application was primary tool used to calculate Corporate Tax Liability to Inland Revenue in the area of Manufactured Overseas Dividends and other Manufactured Tax requirements.

Again, I had full project / technical management responsibility and was solely responsible for its re-write and delivery including onboarding & recruitment responsibility.

**Jul 2003 -  
May 2004  
(CONTRACT)**

**Common Services Agency (CSA) & Health Board (Contract + 3 Extensions)**  
Consultant

***Design and Implementation of an Intranet for Surgical Audit***

Complete design, implementation, testing and delivery of an Internet / Intranet application for the Surgical Audit department. N-Tiered architecture developed solely in ASP.Net with XML Web Services and SQL Server 2000 database access.

**Oct 2002 -  
Jul 2003  
(CONTRACT)**

**Barclays Stockbrokers (Contract – 2 extensions)**  
Senior Developer / .NET Developer

***Re-design and Integration of the Charles Schwab Web Site***

Senior developer working on the re-design of the Barclays/Charles Schwab (Europe) combined web site offering.

I was heavily involved in the development of:

- a. The .Net web service interface for both the new web front end, and many of the existing legacy applications.
- b. The Portfolio Administration, Stock Watchlists and User logon and verification sub-systems.
- c. The new Asp.Net intranet site that allows for Portfolio Administration, Closures, Probate, On-line Pricing, Holdings Disposal etc.

The interfaces between numerous PC based systems and the mainframe legacy applications. This ranged from XML based interfaces to 80 column card-type interfaces.

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The interfaces between numerous PC based systems and the mainframe legacy applications. This ranged from XML based interfaces to 80 column card-type interfaces.

**Jul 2002 -  
Oct 2002**  
(CONTRACT)

**Anite Scotland Ltd.(Contract)**  
Senior Developer

***Crown Office Future Office System (Phase 2)***

Senior developer working on the development of a document management system for The Crown Office. N-tiered VB development running on Windows 2000 platform. Project was re-structured from last year and is now fully XML / XSLT compliant. Now utilizing the Oracle 8i database with XML support.

**Feb 2002 -  
Jul 2002**  
(CONTRACT)

**Common Services Agency (Contract – with extension)**  
Consultant

***CostsBook Financial Recording System***

Consultant responsible for the re-design and development of a financial recording system for the National Health Service. Re-developed from a single tier system to become an N-tiered VB 6.0 development running on Windows 2000 platform with Oracle 9i database backend.

**Aug 2001 -  
Dec 2001**  
(CONTRACT)

**Anite Scotland (Contract – with extension)**  
Senior Developer

***Crown Office Future Office System***

Senior developer working on the development of a document management system for The Crown Office. N-tiered VB development running on Windows 2000 platform. Integrated various Win2000 features such as Active Directory Services, e-mail/fax etc.

**1998 - Jun  
2001**  
(CONTRACT)

**Real Time Engineering Ltd. (Contract + 6 extensions)**  
Consultant

***RT-Energy Exchange and RT-Powerbase***

Senior developer involved in the design and development of two of Real Time Engineering's mainstream products - RT-Energy Exchange and RT-Powerbase. Both of these systems were developed as three tiered, component based Client Server systems (Web based). The development platform was VB6.0, Active Server Pages (ASP), Microsoft Transaction Server (MTS) 2.0, Internet Information Server (IIS) 4.0 with an Oracle 8.0i database backend. Database access was via ODBC and ActiveX Data Objects (ADO) Version 2.4.

***Generation Allocation (GA)***

Senior developer working on the second phase of development of the Generation Allocation project (GAR2), a 3-tier client server intranet development. The development platform was VB 6.0, Active Server Pages (ASP), Microsoft Transaction Server (MTS) 2.0, Internet Information Server (IIS) 4.0, ActiveX Data Objects and Oracle back-end. Client side development with ActiveX controls, vbScript and Javascript hosted within Internet Explorer 4.01.

**1997 - 1998**

**Abbey National Finance and Investment Systems (ANFIS)**  
Senior Developer/Technical Lead



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Worked as Technical Lead responsible for the design and development of the internal Investment Allocation System. The system is a two-tiered application developed in VB4.0 with Crystal Reports and an Oracle 7.3 database backend.

**1995 - 1997**      **Blackbaud Europe Ltd.**  
Software Engineer

Involved in the development and support of Windows applications for the European charity market. These applications were developed using Visual Basic (V3 & V4) with add-on modules/DLLs developed using Microsoft Visual C++. The software utilised two database environments. The lightweight version utilised the Microsoft Access JET database engine and caters for up to 20 simultaneous users, whereas the Client/server version utilised the Oracle DBMS and copes with many hundreds of users.

Initial development for Win16 environment however we began rewriting the core modules to focus on the 32 bit environments. The entire office network platform was Windows NT 4.0 workstation/server platform with Windows 3.11/Windows95 incorporated for backward compatibility.

**1994 - 1995**      **Jardine & Associates Ltd.**  
Software Engineer

Involved in the development of Windows applications for the PC platform. These applications were developed using the Borland C++ v4.02 compiler and utilised the Borland Object Windows version 2.0 (OWL 2.0) class libraries. The software provided a Windows Graphical User Interface (GUI) to the underlying multi-user databases, which were developed using the RAIMA Object Manager Database software and associated C++ libraries.

In general, the applications are concerned with the analysis of the complex systems behaviour and equipment/plant performance evaluations for the offshore oil/gas, power generation and petrochemical fields.

**1993 - 1994**      **Versatile by Design**  
Senior Software Engineer / Technical Lead

Technical lead: Design and re-development of a major CBT package for the Institute of Chartered Accountants. This project involved the conversion of an existing commercially successful DOS based Accountancy training package to the Win16 platform and utilised the Borland OWL 2.0 class libraries in addition to third party VB custom controls.

Designed and developed software prototypes for a hardware manufacturer using VB3.0. One particular prototype simulated a new hand-held device that the company wanted to develop and although intended mainly as a marketing tool, the prototype attracted sponsors who eventually financed the development of the device.

**1990 - 1993**      **IBM Marketing Center, Glasgow**  
Personal Systems Specialist

Focused on the Personal System/2 (PS/2) range of computers and associated hardware and software. Main projects were:

**Automated File Transfer Software (Ayrshire & Arran Health Board)**

This application allowed automatic transfer of patient information at pre-specified times from remote sites to a database on an IBM RS/6000. Developed using the



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'C' programming language and utilising TCP/IP, KERMIT, TERMITE and X.25 protocols.

#### **Test Cell/PC Management (Bank of Scotland)**

Constructed and managed an IBM test environment for the Bank of Scotland. The cell consisted of a network of IBM PS/2s and printers networked using IBM Token Ring hardware and OS/2 v1.3 Communications Manager. The main network server ran OS/2 v1.3 and each note 'remote booted' from this server.

#### **Space, Morale and Remote Technology LAN Design / Implementation**

Worked on the design and implementation of IBM's "Smart Office" in Glasgow.

**1990**

#### **IBM, Hursley**

Software Engineer

Set up and managed a full installation Walkthrough for CICS software v3.0. Received an "Exceptional Contribution Award" for this project.

**1990**

#### **IBM, Greenock**

Software Engineer

Six-month assignment with the Test Engineering team, using Product Assurance and Programming Skills. Initially reviewed the existing Assembly Line Software and produced a Software Quality Report for line management. Developed a data integration package for the line monitor personnel. This package was written in Turbo Pascal and the 'C' programming languages and utilised the IBM NET Bios communications protocol.

**1989 - 1990**

#### **IBM CICS Product Assurance, Hursley**

Software Engineer

Worked as part of a team whose main duties were to ensure that the Hursley Laboratory produced very high quality CICS (Customer Information Control System) software within a predetermined time frame. As well as Product Assurance skills, and gained experience in CICS programming, CICS Testing and CICS Debugging in an IBM 3090 Mainframe and PC LAN environment.

**1987 - 1988**

#### **Kishorn Windows, East Kilbride**

Software Engineer

Developed a database application using Dbase II, completely automating the 'Sales Commission' business process.



## REFERENCES

Derek Lamb  
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