

**John Braham**  
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**PROFILE – SAFe Certified Agile Applications and Database Developer / Analyst with over 23 years' experience.**

Specializing in **Full Stack Blazor** and **Azure Back End Development, Integration, Business / System Analysis, Applications Design and Architecture, Data Processing, Micro Services** with additional front-end skills in both windows and web environments, key technologies are **.NET, Core, C#, Java, REST/WebApi/Web Services/WCF, Blazor, Winforms and MVC**, on the database end my key skills are **RDBMS design and Development, SQL Server, Oracle, T-SQL, PL/SQL, Optimisation and SSRS**

An adaptable Agile developer with additional experience in analysis and systems design, having spent many years as a freelance software developer gaining experience in both long term, large-scale Enterprise developments in addition to varied experience in several short term 'tactical' solutions for a number of clients. Demonstratable experience in a broad range of skills, abilities and business knowledge.

Being a seasoned agile practitioner (SAFe certified) with a great breadth and depth of knowledge of different technologies, architectures and business experience give the ability to, in addition to developing software, to work with the business to create more effective solution designs, create design documentation and when called for take the lead in the agile process acting as scrum master and refining by helping to advise and guide the inspect and adapt cycle.

A clean coder with orientation towards designing and developing applications which adhere to the SOLID principles, creating solutions which are testable utilizing a TDD approach, decoupled and where possible broken down into individual services (micro services) with a single responsibility.

**EXPERTISE**

- Blazor and the Azure development stack
- .NET, C#, VB.NET, Java, Javascript
- Rest, Web Services/WCF, Windows Services, Winforms and MVC
- Service Bus Technologies (MSMQ, NServiceBus etc)
- Database design, optimization and reporting services (MS SQL Server and Oracle)
- Transact & PL/SQL, Stored Procedures & Triggers, Database Design, SSRS etc
- AGILE and SCRUM Methodology, SAFe Certified Practitioner
- Solutions Architecture and Design
- Machine API Interfaces
- Microsoft Office Integration (VBA)
- Visual Basic 6 (VB6) (Inc. COM, OO, n-tier, MTS)
- SAP Integration
- GuideWire (PolicyCenter and BillingCenter)

**BUSINESS EXPERIENCE**

- Insurance Systems (Systems Integration, Rules Engines, Third Party Integration, Data Enrichment, Big data)
- ERP (Greenfield development, Integration, Messaging, Reporting, Machine Integration, SAP Integration)
- Financial Systems (Securities and Guaranties, Mortgages, Private Equity, Banking, Capex)
- CRM Systems (Business to Business)
- Commerce Systems
- Utilities (Energy Providers, Delivery)

**ACHIEVEMENTS**

- Redeveloped legacy Winforms applications into Blazor
  
- Designed and built several very high volume stateless data enrichment routes for Hastings Insurance Services Ltd including the rules processing engine for processing CUE data from Equifax utilizing the AppFabric cache
  
- Was a member of the team for JTI International building a global ERP system, being involved in key development including database design, messaging and integration to support offline functionality, financial (Payment Determination) processing modules and financial reports and statements via SSRS.
  
- Designed and built EDF Energy's (now UK Power Networks) Change Request system including all aspects of database design, application architecture, user interface design and development.
  
- Redeveloped EDF Energy's Portfolio Investment Management System (PIMS) (originally an access system) to a multi user, business critical system, allowing EDF Energy to meet its regulatory requirements.
  
- Designed and built an enterprise scale back end and middleware object system using OO techniques for the CRM system for Dell, a system handling large complex hierarchies of data, providing data handing and analysis.
  
- Contribute to open source (Java) projects with some published works.

## **WORK EXPERIENCE (previous 12 years)**

### **Sikoia – Remote**

**Full Stack Developer – Full Stack, Agile, Azure DevOps, Azure Microservices, Rest, Cosmos DB, C#, .NET Core, Azure Devops, GIT, Full Stack, Blazor  
Feb 2023 to Date**

Working as a Full Stack Developer for Sikoia, a fast growing FinTech startup creating complete slices of functionality into their rich Blazor based web portal and Azure based back end (Rest services against Cosmos DB), creating features to expand of the software's capabilities of data enrichment and due diligence, working with their designers and architects to produce features matching their design and functional requirements in this fast paced, agile team.

### **On Music (Barton Keys) – Remote**

**Full Stack Developer – Full Stack, Agile, Azure DevOps, Azure Functions, C#, .NET Core, Entity Framework, SQL Server, Azure Devops, GIT, Full Stack, Blazor  
Jul 2022 to Jan 2023**

To support the Barton Keys team in their redevelopment of On Musics digital rights platform from a legacy thick client WinForms application to an Azure hosted .NET Core Blazor application utilizing Azure functions for back-end data processing. Development of the full technical stack in vertical slices of functionality.

### **Medivet (Northdoor) – Remote**

**Senior Analyst Developer/Business Analyst – Agile, Azure DevOps, C#, VB.NET, REST, LLBGEN, Mediator, Entity Framework, SQL Server, Visual Studio, GIT, Back End, WinForms  
Oct 2021 to Jul 2022**

To support Medivet during their transformation from a legacy thick client WinForms application to a tiered Azure based application. Development of the technical stack both on the legacy architecture and the new phase redevelopment.

The role involved significant interaction with the business users in terms of gathering and clarifying requirements, creation of high level and functional design documents alongside reverse engineering of the legacy application.

### **Allianz Partners (Anagram Consulting) – Remote / Brussels / Amsterdam**

**Senior Analyst Developer – Kanban, C#, VB.NET, VB6, VBA, Java, WCF, REST, Javascript, Entity Framework, SQL Server (Stored Procedures, Optimization), Oracle, Visual Studio, GIT, IIS, Systems Integration, Razor, CSS  
Mar 2019 to Aug 2021**

To support in Allianz Partners current phase of IT transformation, development of back-office integration software, performing analysis and redesign work over back-office integrations systems between financial, data processing and front office to provide code and architectural enhancements, identification of technical debt and rectifications for production systems.

Analysis, support and development in large volume back-end finance and Insurance (policy based) databases, including optimization of data I/O operations, data staging and transformation processes.

Developed several back-office integration solutions, creation of micro services and REST services through the full project lifecycle, provided recommendations and guidance towards operating in an agile process leading to enhancements in team organization and workflow.

### **Hastings Insurance Services Ltd – Bexhill, East Sussex**

**Senior Analyst Developer – Agile/Kanban, C# .NET, WCF, REST, Java, GOSU, GuideWire 8 (PolicyCenter), Entity Framework, SQL Server (RDBMS Design, Stored Procedures), Big data, Visual Studio, TDD, NUnit, FakeItEasy, TFS, IIS, SAFE, Pair Programming  
Apr 2016 to Feb 2019**

In this (second) tenure with Hastings Insurance Services Limited the work involved creation of additional data enrichment routes developed using C# WCF in order to gather data in real time high volume multi-threaded processes to enrich data streams to better support the business by allowing accurate pricing models.

Due to the very high-volume data handled by the systems involved, these projects included a high degree of optimization of the data structures, and specifically of the stored procedures involved to minimize SQL IO operations, designing data structures to balance the needs between performance and normalization.

Additional development of their Java/GOSU based GuideWire platform was performed to integrate PolicyCenter with the new WCF services by adding calls from the PC code and mapping the PC objects through to PCF updates, on both their legacy data enrichment platform and also their new data enrichment (ISL) platform. TTD was performed using GUnit tests over Java/GOSU and NUnit over C# .NET.

Also developed REST services to allow the authorization of their mobile app against the internal WCF security services.

Additionally, developed and provided training in the areas of application architecture (specifically SOLID design to support TDD) and TDD approach, providing leadership in the field of TDD and testable software, running daily standups and assisting with maintaining the agile process and cycle.

**Medica Reporting Ltd – Hastings, East Sussex**  
**Analyst Programmer – Agile/Scrum, C# .NET, Micro Services, NServicebus, SQL Server, Visual Studio, TDD, NUnit, FakeItEasy, Software Architecture and Design**  
**Nov 2015 to Mar 2016**

Responsible for the solution design and architecture of their automated report assignment systems, this was designed utilising NServiceBus as the backbone messaging system within .NET Micro Services to ensure guaranteed delivery and system resilience and disaster recovery, including the creation of design documentation and working proof of concept.

**Hastings Insurance Services Ltd – Bexhill, East Sussex**  
**Senior Analyst Developer – Agile/Scrum, C# .NET, Entity Framework, SQL Server (RDBMS Design, Stored Procedures), Visual Studio, TDD, NUnit, FakeItEasy, TFS, IIS, AppFabric, SharePoint**  
**Mar 2014 to Oct 2015**

In this (first) tenure with Hastings Insurance Services Limited responsibilities were the analysis, high level design, development and unit testing of several new data enrichment routes including CUE rules processing engine designed to process extremely high volumes of Equifax data at POQ (Point of Quote), to generate CUE scores and rule based decisions, all development was performed with a TDD approach using FakeItEasy as the mocking framework and a bespoke IoC injection container, MapFlow designed to provide accurate address level enrichment data at point of quote and existing customer identification and matching.

Due to the very high-volume data handled by the systems involved, these projects included a high degree of optimization of the data structures, and specifically of the stored procedures involved to minimize SQL IO operations, designing data structures to balance the needs between performance and normalization.

These projects included the full lifecycle from bringing in representatives of the third-party providers to discuss integration, to systems requirements analysis and design, systems architecture, managing the agile process though to delivery.

**JTI International – Trier, Germany**  
**Developer – Agile/Scrum, C# .NET, MVC, Razor, JavaScript, JQuery, Entity Framework, Code First, SQL Server, Visual Studio, Windows Services, MSMQ, TDD, NUnit, FakeItEasy, Agile, TFS, SAP Integration, Knockout**  
**Jan 2013 to Feb 2014**

Development work for this project was within one of eight scrum teams for a major global ERP solution integrated with the clients' single instance SAP solution. The solution has been developed using primarily an MVC 4 front end incorporating Knockout, accessing services which utilize Entity Framework against a Code First database dynamically generated from the application model.

Due to the scale and distributed nature of the system the design work included designing datasets to cope within scenarios of disconnected or potentially out of synchronization data, and with SQL server replication.

Contributed to the solution, designed as a distributed system relying on a backbone of NServiceBus services to synchronize the data across instances, also the development of services which connect to the SAP interfaces to push and pull data in and out of the system.

In terms of business experience most heavily involved in the Procurement and Payment Determination modules of the system, for procurement, the development of software for use within a factory/buying station environment integrated with machines (barcode readers, Mettler Toledo interfaces etc) to receive into stock, and within payment determination to process the payments to farmers based on the business rules and the data extracted from SAP interfaces.

**Markerstudy Insurance Group – Tunbridge Wells, UK**  
**Developer – Agile/Scrum, C# .NET, ASP.NET, SQL Server, Visual Studio, Windows Services, Web Services, MSMQ, NUnit, MOQ, TFS**  
**Sep 2012 to Jan 2013**

Responsible for the integration solution connecting claims handling and management systems through a combination of ASP.NET, MSMQ, Windows Services and Web Services developed using C#.

**UK Power Networks (Formerly of EDF Energy) – Crawley, UK**  
**Developer – Agile, .NET, Winforms, SQL Server, Visual Studio, TFS**  
**July 2011 to Jun 2012**

During this (second) tenure with UK Power Networks (formerly of EDF Energy), responsible for the extension and further development of the PIMS (Portfolio Investment Management Systems) and Change Request applications (developed during the first tenure) in order for UK Power Networks to meet new requirements laid down by OFGEM.

Technologies involved include .NET, a heavy focus on Winforms and User Controls, ADO.NET and complex T-SQL stored procedures and views.

Working on with a mixture of contract and permanent resources has been developed to extremely challenging timescales for this critical project.

**Reed Business Information – East Grinstead, UK**  
**Developer – Agile/Scrum, .NET C#, Web Services, WCF, Winforms, Multi-Threading, DevExpress, Visual Studio, Team Foundation Server (TFS), Entity Framework, TDD, NUNIT, MOQ**  
**June 2010 to June 2011**

Working in a mid-sized team, in three weekly sprints, responsible for full stack development from a rich Multi-Threaded Winforms UI through the stack to WCF Web Services using Entity Framework to build and manage self tracking objects, all code above the UI layer strictly developed to a high standard with an emphasis on close to 100% coverage with tests, and a strong adherence to TDD principles, responsible for ensuring that all code developed is covered by NUNIT tests utilizing MOQ and dependency injection to enable the testing of the service layer components against mock data structures.

Working on with a mixture of contract and permanent resources, this has been the development of release 3 of RBI's Falcon system, which is used for managing and leveraging data regarding financial institutions for due diligence.

**TriSystems – London City, UK**  
**Analyst Programmer – Insurance, C# .NET, Webforms, Web Services, WCF Services, XML, XSL, XPATH, SOAP, NUNIT Testing, Documentation, Selenium**  
**Jan 2010 to May 2010**

Responsible for developing code both for utilizing .NET Web Services from within C# WebForms and for developing code within these Web Services to support various services including transformations of XML streams through XSL and dynamic assembly of SOAP requests to operate a remote WCF service without client side coupling to the service. Also responsible for the creation of NUnit tests for these new services, documentation tasks, for creating, managing and taking ownership of the system and integration test processes, developing test scenarios and implementing these test scenarios in Selenium, communicating the test results directly with the end client.

**Microsoft – Cologne, Germany**  
**Microsoft On Site Engineer – Agile, C# .NET, Winforms, Webforms, Web Services, LINQ, OO Design, SQL Server, Documentation, Microsoft SQL Server Analysis Services (SSAS, MDX Queries, CUBES), SharePoint Dashboard Designer**  
**Nov 2009 to Dec 2009**

Working onsite at EASA (European Aviation Safety Agency) with Microsoft in a short-term tactical project, responsibilities have been the completion of MDX formula queries for calculations on the KPI dashboard display, the development of a C# Web Service to allow the programmatic interfacing to the Dashboard staging database to facilitate automated data feeds. The creation of WinForms & WebForms to interface with the new Web Service.

Responsible for consulting with the client directly on Microsoft's behalf to analyze their requirements and advise possible solutions.

**EDF Energy (Utility Company) – Crawley, UK**  
**Analyst Programmer – Agile, .NET, Winforms, OO Design, SQL Server (RDBMS Design and Stored Procedures), Documentation, Microsoft SQL Server Reporting Services (SSRS), SSIS, Access, VBA**  
**May 2008 to Oct 2009**

During this (first) tenure at EDF, in a small dynamic team (as the only developer), responsible for seeing to completion business critical planning and reporting tools to tight timescales, making weekly incremental code releases to the business, the development and authoring of EDF Energy's .NET Coding standards, implementing source control systems, and the full design and development lifecycle of a change request system using .NET 2.0 and SQL Server for the following successful projects;

- i) **PIMS/PIMS II Project**  
Brought into the PIMS project which was underway to convert two disparate Access database systems into one cohesive, dependable and auditable SQL Server/.NET solution as a substitute for their in-house resources. The PIMS application consisted of three segments, one of which was removed from the system to be scratch built again in the second project, one third of the application recoded applying industry standard practices where possible and solidifying the screen logic and validation, the final third of the application redeveloped within the existing architecture aligning with some of the existing user interface standards and bringing in more common industry standards.
- ii) **Change Request Project**  
The second project working closely with the project BA, analyzed and interpreted the business requirements into a specification and designed a new database system which could interoperate with the original PIMS database whilst not compromising its own referential integrity. The change request system from the database level upwards was developed as a modular and configurable system to enable it to be extended to operate against any number of different systems as future needs might arise.

iii)

**Reporting**

Against both of the aforementioned projects the business required numerous reports, some of which were developed using Microsoft SQL Server reporting services, they also required that the Change Request application keep users informed via email which was accomplished using SQL Server Integration Services (SSIS) to email users with relevant information and reminders.

#### Previous Clients Feb 1999 to Feb 2008

- **Rexel Senate** (Electrical Distributor) –VB6 Winforms, VBA, COM Components, OO Design, SQL Server
- **Norinchukin Bank** (Japanese Commercial Lending Bank) – London City, UK – .NET, Winforms, SQL Server
- **APAX Partners** (Private Equity Firm) – .NET, Winforms, SQL Server, Stored Procedures, Functions
- **Concep Group Ltd** (Software House) – Interaction 5.5 Integration (COM API), .NET, SQL Server
- **Simmons & Simmons** (Law Firm) – Microsoft Office, VBA, .NET Integration(Interop), .NET, Winforms, WorkSite
- **Friday-Ad Group Ltd** (Media)– SQL Server, .NET Windows Services, .NET, VB6, Data transport and Credit Feed
- **Vertex Financial Services** – SQL Server, C# Web Services, ASP.NET, VB COM, XML, XSLT, Mortgage Systems
- **Alphameric Hospitality Ltd** – SQL Server, T-SQL, .NET, Custom Controls, Commerce Systems, Documentation
- **Rural Payments Agency** – Oracle 9, .NET, Webforms, Web Services, XML Serialisation, XML, Financial Systems, Crystal Reports 10, Quest Toad, Serena Changeman/PVCS Dimensions, Documentation
- **IBM** (For DWP) – XML, ActionScript
- **Accenture** (EDF Energy) – ASP, JavaScript, Visual Basic, VB6 Winforms, COM
- **Wolftek** (Software House) – Visual Basic COM, OO, .NET, SQL Server, CRM Systems
- **FDM Group** (Software House and Consultancy) – Visual Basic COM, VBA, Serialisation, MSMQ, MTS, SOAP
- **Le Software Ltd** (Software House) – Visual Basic, COM, XML, Oracle PL/SQL, Exchange Server, CDO
- **Hastings Borough Council** – Visual Basic, Access 97/2000, Active X, HTML, VBA