

Solution Architect

I have specialised in solution architecture, translating strategic intent into actionable outcomes. Over the past 20 years I have a proven record of accomplishment, successfully managing stakeholder expectation and delivering enterprise IT solutions for both web-based and desktop software applications. My skills include, team management, bid management, product development, software consultancy and hands-on technical expertise. In the past, I have focused my career on process transformation. I have vertical experience having worked the following industries: Oil & Gas (5y), Finance, Local Government & Central Government (>10y), Defence, Environmental, CRM and Retail.

My current focus is enabling and building high performance agile teams to better understand and implement cloud technologies. My objective is to transform organisations towards fully optimised cloud solutions and a cloud first approach encouraging software teams to adopt a DevOps approach.

Core Competencies

- General business acumen from being an independent consultant for over 12 years which includes: business plan writing, road mapping, high level design, ROI investigation, tendering, project planning, managing contracts, grant applications, dealing with IPR issues and budgeting.
- Over 20 year's technical experience developing applications for the Microsoft platform with a concentration on utilising the Cloud and the ArcGIS suite of products.
- Ability to identify and deal with a client's needs and priorities by translating them into appropriate technical solutions.
- Experienced in building multi-disciplined teams, motivation, guidance, mentoring and providing up to date consultancy service to both clients and colleagues
- A multi-skilled solutions architect with good all-round ability to manage multiple projects and meet deadlines whilst at the same time comprehending complex and interdependent business processes.
- Product Owner workshops, business requirements gathering and building prototypes for clients to understand the proposed solution. Business Sales Presentations.
- Understanding of the issues involved to create a new product identity, how to turn a concept into a marketable product and then take it to market.

Contact Details

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Achievements & Certifications

- Certified Information Technology Professional (CITP), British Computer Society
- Incorporated Engineer (IEng), British Engineering Council
- [MIT Artificial Intelligence: Implications for Business Strategy Executive Course](#)
- Certified Microsoft System Expert (MCSE), Cloud Architect, 11d Intensive classroom course, Firebrand, Mar 2018
 - 70-533 Implementing Microsoft Azure Infrastructure Solutions
 - 70-535 Architecting Microsoft Azure Solutions
 - 70-532 Developing Microsoft Azure Solutions
- AWS Certified Solutions Architect – Associate, Online Pluralsight, Elias Khnaser, Sept 2017
- [Product Owner Certification](#), The Knowledge Academy, Nov, 2017
- [Scrum Master Certification](#), The Knowledge Academy, Dec, 2017
- Prince2 Practitioner & Foundation, University of Glamorgan Commercial Services, 2004
- Black Belt Six Sigma, The Knowledge Academy, Online (In-Progress), Dec 2017
- TypeScript, Angular 2, Bundle Course, Grunt, Online, Pluralsight, Aug 2017
- Many ESRI ArcGIS/server and desktop technical courses 1999-2014

Tools and Technologies

- Visual Studio 2017 Enterprise, C# > 15 years
- Micro services, OData, .Net Core 2 Angular (1,2,4,5+), Typescript > 5 years
- Team Foundation System (TFS) > 8 years
- Application Lifecycle Management (ALM) > 8 years
- ESRI Java Script API / Dojo > 3 years
- Azure Cloud > 6 years
- Azure SQL / SQL Server from 2000-2016 > 6 years/15 years
- Service Orientated Architecture (SOA) > 6 years
- Application Interface (API) Architecture > 6 years
- VB.Net, AJAX, WCF, ASP.net, VB6 > 17 years
- ESRI Product Suite to v10.5 (ArcGIS Server, ArcSDE, ArcGIS Desktop, ArcObjects, ArcAvenue) > 22 years

Educational Qualifications

- PhD. Computer Science (FT/PT), Incomplete, University of Glamorgan, (2005)
- MSc Geographic Information Systems (PT), Pass, University of Glamorgan (2003)
- BSc Civil Engineering (PT), Pass, University of Glamorgan (1999)
- HND Building and Civil Engineering, Pass University of Glamorgan (1993)
- OND Building and Civil Engineering, Pass, Rhyd y Felin Technical college (1991)

Projects and Experience

It has been difficult to compact my experience to only a few pages, I have worked over 30 projects/products over my career. These have ranged from the start of my career as a single developer working on a single project to the larger projects where I have been responsible for the interaction with the client, developing strategy, policies and helping large teams to deliver through a global team structure.

Recent Project Experience (2010 – 2021)

Project	ADIB Cloud Transformation
Role	Senior Solution Architect
Duration	May 2021– Present (est comp. Oct-21)
Domain	Car Financing
Technology	MVC
Project Description	Temporary assignment filling in for a colleague who was reassigned to higher priority internal project. Just helping-out to see the project over the finishing line.

Project	ADIB Cloud Transformation
Role	Senior Solution Architect
Duration	Dec 2020– May 2021
Domain	Banking
Technology	Azure and AWS
Project Description	Developed a strategy and adoption plan and built a team to move 5,500 servers from legacy architecture system to a cloud. Working with over 60 stakeholders I put together a plan for the long-term adoption of cloud

Project	Cloud Cost Optimisation
Role	Senior Solution Architect
Duration	Dec 2019 – Aug 2020
Domain	Advertising
Technology	Azure and AWS
Project Description	Identified over \$1m (25%) worth of potential savings in the Insights programme domain. Opportunities were across both Azure & AWS architectures. Working alongside roughly 80 stakeholders I implemented a programme of work to execute change within the organisation.

Project	Legacy Translation Team
Role	Senior Solution Architect
Duration	June 2019 – Sept 2019
Domain	Logistics
Technology	C#, Azure, .Net
Project Description	Developed a strategy for upskilling an existing team. Put together a plan for translating 10 applications from UniSys > Azure Cloud.

Project	Cloud Adoption Team
Role	Senior Solution Architect
Duration	Jan 2019 – Apr 2019
Domain	Fashion
Technology	C#, Azure, .Net
Project Description	As part of the Cloud Adoption Team my role was to advise teams, assess the stakeholder's current solution and advise on the activities to transition to Azure native cloud. This involved workshopping with stakeholders and knowledge transfer to the development teams.

Project	Early Warning System
Role	Developer
Duration	Nov 2018 – Dec 2018
Domain	Identity Validation
Technology	C#, Azure Web Jobs
Project Description	Developed a Web Job for production of daily and monthly statistics for W2 clients. The Statistics would give the end client a degree of knowledge about the system performance and provide confidence that there has been little change over the period of time. Product was rolled out to Production within 4-weeks of starting the consultancy.

Project	Various Projects - Virtusa Polaris - Moorgate, London
Role	In-country Solution Architect
Duration	Jan 2018 – Sept 2018
Domain	Telecoms, Banking
Technology	Azure Business2Consumer, Azure API Management, Cosmos Document DB, Azure Data Migration, Application Insights, C#, DotNetCore2, Entity Framework 6, SQL 2014, MVC, Angular, Typescript, JavaScript, Redis Cache, Swagger, fontAwesome, PowerBI, Angular 1.4, Liferay DXF, SQL 2016, Team Foundation Server
Project Description	<p>BIAN - Working for X-Labs an internal Virtusa team that uses the latest technology for sales presentation and showing proof of concepts as working prototypes. Converting AWS API to Azure API. 6-weeks consultancy, translating AWS Lambda API to Azure C# API. In preparation for a presentation at the 2018 F10 hackathon in Singapore, the API's were required as part of the presentation.</p> <p>NMTS - Colt Technology has issues with the performance of the Number Telephone Management System (NMTS). I was brought-in to evaluate and assess the current system and make recommendations of how to improve the performance and reliability of the system. The system had been designed over 15 years ago as a monolithic SOA. I put together a presales proposal that would migrate the current VB.net/SQL application into a server-less Azure web application using a Cosmos DB backend. The team will grow to 30 people at peak resource.</p>

Project	Netalogue Payment Platform
Role	Solution Architect - Lead Developer
Duration	July 2017 – September 2017
Domain	Business to Business Payments – Port Talbot
Technology	Visual Studio 2017, CQRS architecture, microservices, Vb.Net, Typescript, Angular 2, SQL 2016, TDD, Entity Framework, MVC
Project Description	E-commerce Business 2 Business platform. Platform migration from current ASPx platform to Angular 2 platform.

Project	Green Waste Subscription System
Role	Solution Architect - Lead Developer
Duration	Oct 2016 – July 2017
Domain	Lancaster City Council - Local Government
Technology	Agile Project Management, Team Foundation Server (ALM), Azure Cloud Computing, Azure SQL, Visual Studio 2017, .Net 4, MVC, WCF, Xamarin, Angular2, HTML5, Unity, Entity Framework, TDD, SQL Server 2016, ESRI On-line, ESRI Java API, Python
Project Description	Requirements capture, prototype development. Designed and built a tool that captured subscription details for citizens who want to subscribe to the councils Green Waste Collection System. Integrated with Capita Payment response for reconciliation. MVC Payment Management system. Route Optimisation using ArcGIS Plugin, GIS front-end (Android) for In-cab. Road mapping product development. Kanban PM, team mentoring and implementation of TFS. Rolled-out ESRI Portal 10.5.

Project	Various Projects, (Nexus GIS, IMap &DocPro) – Wood Group Kenny (now Wood previously JP Kenny)
Role	Solution Architect / Project Owner / Scrum Master
Duration	May 2011 – July 2016 (5 years)
Domain	Oil, Gas and Utilities – Staines
Technology	Team Foundation System ALM, Visual Studio Ultimate 2015, Microsoft Test Manager, SCOM, ESRI Suite of products, C#, Micro-services
Project Description	<p>General: During my time, here I was responsible for the shift any from waterfall implementation and the adoption of Agile processes using Team Foundation Server. I have setup a full Hyper V TFS development environment, I grew and project managed the team from 2 to over 10 software professionals and 8 GIS Analysts. Angular 2, Type Script, Dojo and the ESRI JavaScript API frameworks (preceded by Silverlight design).</p> <p>Nexus Web Geographic Information System: PODS, is as acronym for Pipeline Open Database System, it is the industry standard database model for gas and oil pipeline design and construction. The PODS model schema has over 700 tables for data capture. For this project, my team & I have designed and implemented a full suite of data management tools and ETL software. A Web Portal presents data to the end user. The product uses an extensible modular pattern following the Service Orientated Architecture (SOA) pattern. The product is easily configurable and quick to set-up for new projects as they come on-stream.</p> <p>The project was broken down into the following separation of concerns for the client:</p> <ul style="list-style-type: none"> - Vessel (or vehicle) tracking - Valve Management and property tracking - Construction Item searching - Construction Progress - ETL Management (ArcObjects Application) - Offline management (ESRI Add-in) - Alignment sheet outputting (ESRI Add-in) - Schematic Data viewing - Online sketch drawing - 3d ROV tracking <p>Online link: https://sd2-pods-gis.woodgroup.com/NexusGIS/v2.3/Main/Portal/SD2/</p> <p>Doc Pro: The business has developed a Document Manager suite of products. The system keeps track of issued document revisions within the project. This project aimed to upgrade an existing application from VB5 technology to C# WPF & HTML5. The project also reviewed existing processes and procedures and made many process improvements.</p> <p>Nexus IMap: IMap provides an interactive map that shows how business processes through the organisation are linked. A Tube map identifies the main areas of project setups; these are then followed by schedules of input and out maps.</p>

Project	Oxygenic
Role	Solution Architect / TFS MVP
Duration	April 2016 – May 2016
Domain	Microsoft - Defence (MOD)- Swindon
Technology	Agile Project Management, Team Foundation Server (ALM), C# console application, SQL Server 2012
Project Description	Design, implementation and documentation of Team Foundation System (TFS). Held requirement, customization and tutorial workshops. Data conversion of system requirements document from Word & Excel to into TFS product backlog and work items.

Project	TPS2 (Towah Payment System)
Role	Solution Architect
Duration	Nov 2010 – April 2011
Domain	Towah – Banking
Technology	Agile Project Management, Team Foundation Server (ALM), SCOM, Azure Cloud Computing, Azure SQL, SCOM, Hyper V, Visual Studio 2010, .Net 4, MVC, WCF, Unity, Entity Framework, TDD, SQL Server 2008
Project Description	The project aims to uplift the current system from an MVC.net2 implementation of TPS into a re-engineered version leveraging the benefits of Microsoft Azure – TPS2. My role was, to capture requirements, business analysis, write high level solution architecture document and manage the project. I directly managed the development and deployment of the WCF Services and MVC framework. The challenge was to bring together a new team of 3 developers and 1 QA in Norway, a similar sized offshore team in India and a team of 2 testers in China. I did this by introducing the full suite of Team foundation Server for Software ALM (Application Lifecycle Management). This was both a technically challenging and team building project with the overall objective of delivering a world class global banking system integrating the latest software technologies.

Project Experience (1996 – 2010)

Contract Roles

Job Description	Project	For	Start	End	Location
Solution Architect	IIAPTS (Imports Invoice and Payment Tracking System)	Peacocks	Jun 2010	Oct 2011	Cardiff
Lead Developer	DRCA (Defence Register Certificate Authority)	Cadminium	April 2010	May 2011	Gloucester
Solution Architect and Developer	Water Resources GIS (WRGIS)	Environment Agency	Sept 2009	Mar 2010	Warrington
Lead Developer	Airwave GIS	Logica	Feb 2009	Aug 2009	Rugby
Technical Lead and Solution Architect	Marine and Resourcing System (MaRS)	Crown estate	Dec 2008	Feb 2009	London
Solution Architect	Long Term Investment Strategy (LTIS)	Halcrow	July 2007	Dec 2008	Swindon
Technical Lead and Solution Architect	National Coastal Erosion Risk Mapping (NCERM)	Halcrow	May 2007	Dec 2008	Swindon
GIS Consultant	East Devon Spatial Searcher	East Devon District Council	Feb 2007	Mar 2007	Sidmouth
Solution Architect	High Accuracy Weather Prediction Interface (HAWPI)	Geo-Bureau	June 2005	Jun 2007	Pontypridd
Business Consultant	Various	University of Glamorgan	June 2005	Jun 2009	Pontypridd
IT Consultant	Various	Geo-Bureau	Sept 2005	Sept 2006	Pontypridd
Solution Architect, Project Manager and Developer	Crime and Disorder Information System (CANDDIS)	Safer Neath Port Talbot	Jun 2003	Sept 2004	Port Talbot
Solution Architect, Project Manager and Developer	Domestic Abuse Referral Information System (DARIS)	Neath Port Talbot Communities First	Aug 2003	Jan 2004	Port Talbot

Perm Roles

GIS Developer	GIS Data-Viewer	Neath Port Talbot County Borough Council (NPTCBC)	Aug 1999	Aug 2003	Penllergaer
GIS Developer	Vehicle Tracking and Management Information System (VECTIS), Various other projects	Neath Port Talbot County Borough Council (NPTCBC)	Jul 1996	Aug 1999	Penllergaer

Prior to 1996 I worked as GIS Analyst, Surveyor and Laboratory technician for NPTCBC from 1994.