

ABDUL KHAN

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PROFILE

Since 1994, I have extensive experience in both the private and public sectors. With technical background, my expertise is in integration and providing solutions from small to large-scale in retail, banking, digital, insurance, defense, government, aviation, telecommunications, housing associations, education, travel, and pharmaceuticals. I have successfully designed and delivered end-to-end solutions for businesses across Europe, the Middle East, Africa, Asia-Pacific, and Latin America, with a strong focus on digital transformation and cloud-based solutions using platforms like Azure and AWS.

- Full Application life cycle implementations for custom software development on large-scale System delivery
- Involved in strategic plans and managing functional groups with multiple technical disciplines to architect and design software products.
- Experience in various types of SDLC; Waterfall, Agile and development team building within the business unit.
- Experience in performance responsibilities and working with teams to develop more specific goals and objectives
- Applied advanced technical expertise and leadership to drive the medium to the long-term strategic technical direction of the functional
- Presented technology roadmaps to senior management and contributed to decisions that impacted functional areas and product direction.
- Experience in developing enterprise applications, Cloud applications, and office automation applications on the web and mobile devices.
- In-depth SDLC experience implementing Private, Public and Hybrid cloud solutions.
- A dynamic career with strong business and technical leadership, hands-on problem-solving, planning, team-building and project management skills Led architectural board sessions, workshops and Tech groups teams to provide enterprise solutions
- **Profile, articles and example of work** - [LikedIn](#), [LinkedIn articles](#), [Personal Profile Web Site](#), other [Articles and example of work](#)

TRAINING & COURSES

TOGAF 9 Enterprise Architecture Framework, Amazon Advance Architecture, and Data Warehousing on AWS, Cyber and Cloud Security Services Security Information and Event Management (SIEM) architecture and process and Enterprise Security Management Practitioner Cloud Security (Cloud Security Architecture, DevSecOps, Data and Assurance aspects, Governance, Operations and Web App Security)

SECURITY CLEARANCE

Held SC and Baseline (Central Government and Ministry of Defense)

MARKET EXPERIENCE

Banking, Retail, Insurance, M.O.D., Government, Aviation, Telecommunication, Housing, Education, Travel, and Pharmaceutical

SUMMARY OF SKILLS

ARCHITECTURE METHODOLOGIES, PATTERNS – SOA, ESB, EAI, ETL , UML, Messaging Patterns, Microservices architecture patterns, SPRAX EA, Object-Oriented Design, Brokering services, AOP, Business Process Modelling (BPMN); Rational System applied with TOGAF for EA, SDLC, ITIL Service Lifecycle and Strategy (SS), Service Delivery, LAMP/MEAN stacks solutions, JEE, Spring, Hibernate, COTS , Agile and Waterfall

CLOUD - (PaaS, IaaS and SaaS), AWS, Azure Services. Hybrid and Public Cloud Solutions, CloudFoundry, SaltStack, Puppet, Chef, (NoSQL, MongoDB, DocumentDb, Amazon RDS MySQL), SaaS Solution (Percona MySQL, SQL Server 2012. Neo4j), Azure Data Lake, U-SQL, Hadoop and Azure Data Lake Analytics.

AWS - EC2 Container Services, ECS, Lambda, Elastic Beanstalk, S3, EBS, EFS,ELB, NLB, Storage Gateway, RDS, ElastiCache, PrivateLink, Transit Gateway, Direct Connect, CloudFront, IAM,DNS, Single Sign-On, , Amazon API Gateway, AWS Lambda, AWS Elastic Beanstalk, AWS Security Token Service, Simple Queue Service (Amazon SQS), Amazon Simple Notification Service (SNS),

Azure – Azure Cloud Stack, Azure Intergration Services, Azure API Management, Azure Logic Apps, Azure Service Bus, and Azure Event Grid, Functions, Service Fabric, Cloud Services, Blob Storage, File Storage, SQL Database, CDN, Multi-Factor Authentication, Security Center, App Center. Azure Cloud Services (PaaS & IaaS), Application Insights, Document DB, Internet of Things (IoT), Azure Monitoring, Key Vault, Visual Studio Online (VSO) and SQL Azure.

DEVELOPMENT TECHNOLOGIES - .NET Framework and .Net Core, Visual Basic .NET, VB6/5/4, VBScripts, COM+, GAC, WMI, MOM, NDOC, NUNIT, Visual Basic 2, 3, 4 and 5, Java (JSDK 6) and Java Applets, TFS - Team Foundation Server, NANT, MS Build and MS SDC Framework. SharePoint Packaging, Sites management and deployment .NET implementation of the MVC, Applications design patterns, ASP.NET 3.5/2.0/1.1, ASP, IIS 7/6/5, SSL/TLS, JDBC, Jenkins, Marvin, JEE (JDBC, JNDI, EJBs, JSP, Java servlets, JTA, JavaMail, Radius Services, Symantec, 2FA

SERVICES AND MOBILE – .Net Core, Micro-services, Restful API, Service Controller, Stateless, Stateful and Actors , B2B, B2C, E-Commerce, , iOS, Android, Windows Mobile, Application Design, payment gateways (Authorize.net, PayPal, Google Checkout, Dwolla), Shipping & fulfilment, Cross-platform mobile Design, Drop shipping support, Experian's Business & Credit Information

WEB SERVICES TECHNOLOGIES - Web Service, WCF, AMX, API, Restful Service, Window Services, Web Services, WSDL and UDDI, SOAP, Web services, Spring Framework & dependency injection, XML, XSD, XSLT, CDM, Enterprise Logical Data Models (LDM), Java EE APIs

QUEUE TECHNOLOGIES - MSMQ, MSMQT, Window Service Bus 1.0, AWS, Amazon Simple Queue Service (SQS), IBM MQ, RabbitMQ

ESB TECHNOLOGIES – Microsoft BizTalk 2016, 20013, 2010, 2006, 2004 and 2002, WebSphere 6.0, IBM WebSphere, IBM Application Server, OpenShift, JBoss FuseESB, CAMEL, Apache Karaf, BPM Suite, BRE

DATABASE TECHNOLOGIES - SQL Server 6.5/2000/2005/2008R2/2012, Oracle Developer Suite, T-SQL, PSQL, Oracle 8i, 9i, 10g AND Oracle 11g, Dimensional Data Modelling (Star/snowflake), schema design, DDL scripts, Extract Transform Load (ETL) - Framework, Performance Tuning of SQLs

EXAMINATIONS

HND (Business Information System Analysis) Programming and Methodology, BTEC - BTEC Diploma in Design & Fine Arts / GCSEs (Math's, English, Physics, French, Chemistry, Art, History and Religious Education)

PROFESSIONAL EXPERIENCE

ATOS / NS&I – March 2024 to Current

Solution Architect

Projects and Responsibilities

Digital transformation project, moving legacy system to Azure. I provided HLSD/LLD (High- and low-level solution design documents) were to Implementation, maintenance, and development of datacentre systems that included, Server Hosting platform (Virtual Infrastructure, Storage, and Backups), Backup as a Service platform (BaaS), Datacentre hardware, Billing and reporting capabilities of the cloud platform and Monitoring service

Liverpool City Region Combined Authority (Mersey travel) – September 2023 to December 2023

Solution Architect

Projects and Responsibilities

As a Solution Architect as provided a crucial role in driving digital transformation and migration projects for LCRA. My primary focus providing end-to-end solutions, encompassing within the LCRA Mersey Travel, which covers all parts of IT Liverpool transports infrastructures, Mersey Ferries, Mersey Tunnels and LCRA Asset Management Estates. This was both B2B and B2C landscapes and deeply involved with the procurement of solutions for the LCRA. I worked a varied digital Transformation projects towards Hybrid and Cloud-based solutions (Azure). My responsibilities were articulating architectural designs with business objectives and ensuring scalability, security, and efficiency solutions. Collaborating closely with management, engineering, business analysts, key stakeholders and third parties. Projects and deliverable artefacts were:-

- HLD - Integration & and interface designs between Asset management platform and Cloud Financial systems
 - HLD –Asset management document management solutions
 - HLD – (SaaS) Solution - government/local authorities manage and run the democratic processes for customer engagements and surveys,
 - Analysis Document - Provided recommendations on migration and upgrades for existing Asset Management systems
 - Worked closely with business, product teams, security, legal and procurement to provide IT requirements for procurement packs, which also included Vulnerability Management, Security Testing, Penetration Testing, ISO 27001, PCI-DSS compliance and GDPR requirements.
 - I worked across multiple teams and SMEs, attended Steering groups, and Architectural Design authority's delivery of products.
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Aer Lingus (<https://www.aerlingus.com>) – Nov 2022 to June 2023

Solution Architect

Key Technologies

Cloud Serverless architecture, AWS and Serverless Architecture, Fargate, Microservices, REST API services, Event-driven Architecture Docker, Containerization and API Gateway,.Net and Java

Projects and Responsibilities

Omi Channel / Digital transformation project, moving legacy services from on-premises ESB platform (IBM WebSphere broker) to Cloud (AWS). Key projects that I provided HLSD/LLD (High- and low-level solution design documents) were: -

- HLD Ancillaries (seat-maps, baggage, and travel offers) Offers and Pricing
 - HLD Collection and stamping of passenger's nationality data on flight tickets.
 - HLD AWS High-level Infrastructure design for Integration environments (development, staging and production) with Integration Event messaging hub
 - HLD for a generic Cloud solution for Security Authentication and Authorization For APIs within the integration environment (Auth0, JWT, Centralised Secrets Manager, Key Management)
 - I created designs based on event and micro services architecture for the cloud environment based on AWS's well-architected patterns and approaches.
 - I would work closely with business, product teams, security, data, testing and third-party teams to ensure the delivery of the solution
 - I presented solutions to business and design authority's approvals and worked across multiple teams and SMEs to ensure the compliance/regulation for governance, security, functional and non-functional requirements were met.
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Janes <https://www.janes.com> – April 2022 to Nov 2022

Solution Architect

Key Technologies

Cloud Serverless architecture, AWS, AWS Lambda (Serverless Architecture), GraphQL, Micro services, Docker, Containerisation, API Gateways, Azure DevOps, AWS RDS (no-SQL), AWS CDK, CI/CD, GitHub, DynamoDB, DocumentDB,.Net Applications, Webb Apps, .Net API Services, JWT, AWS Secret manager, OpenSearch, EKS, Ansible GraqhQL, SPARQL, Speckflow, VS Code, C# Sharp, .Net, Typescript, Confluence

- Provided solution for common integration messaging event hub that allows business-critical domains for Data, content and assets and internal and external sources to allow communicating. (AWS EventBridge, AWS EventBus, Lambda Services)The solution used Broadcast, publish and subscribe patterns.
- Provided solutions for public and internal search APIs (OpenSearch, Azure DevOps, GitHub, Node.js, EKS, Terraform, Ansible GraqhQL, SPARQL, Speckflow, VS Code, C# Sharp, .Net, Typescript)
- Provided solution for generic solution common approach for Authentication and Authorizing all services across the IT estate using AWS Cloud native resources and third-party applications (Auth0, JWT, Centralized Secrets Manager, Key Management, API Gateways, Cloud Trail, Cloud Watch, Certificate Manager, IAM)
- Worked closely with business Leads and management to conduct cloud assessment, suitability and feasibility and digital strategy to create technology stack roadmaps.
- Established technology solutions at a business and technical level, understanding their functional and non-functional needs for a scalable and highly available system.
- Presented solutions to business and design authorities' approvals
- Worked Across multiple teams and SMEs to ensure the compliance/regulation for governance, security and functional and none functional requirements were met.

- Lead designs, estimation, planning, and implementation of business solutions based on Micro Services Architecture
- Set technical roadmap to build scalable, distributed enterprise application, leveraging Micro Services architecture.

TFGM (Transport For Greater Manchester) <https://tfgm.com> – Nov 2021 to April 2022

Solution Architect

TFGM Portal. Migration of the existing TFGM portal and all Java services to serverless architecture

Key Technologies

AWS, AWS Lambda (Serverless Architecture), Java Servers, Node.js, GraphQL, Microservices, Docker, Containerisation, API Gateways, AWS RDS (no-sql), AWS CDK, CI/CD, GitHub.

Key Responsibilities

- As an SA, I was responsible for **working with TFGM Business Teams, Partners, Application/Data, DevOps Engineering Teams to migrate the exiting TFGM portal and the data feeds to the AWS serverless platform**
- Responsible for working with Enterprise and Application architects to **define Cloud-based, cloud-native API integration strategy**
- Key responsibility was to **create a Well-Architected high-level and detailed design for the Serverless TFGM landing zone, and lower environments** (Management for CI/CD, DEV, Testing, Pre-production and productions), with the public and external-facing services.
- **Responsible for end-to-end delivery** along with Architecture Design & Implementation, Project Management, Team Management and Stakeholder Management
- **Review, Assist and Recommend Cloud Migration Strategy**, Roadmap and Architecture for Reengineered applications
- **Design and implement a highly scalable, available, secured and fault-tolerant website** hosting platform for public-facing websites.
- Extensively used AWS Lambda Services, API Gateway, Workspaces, SES, SNS, Route 53, IAM, WAF, KMS, Certificate Manager, S3, CloudFront, RDS, CDK, Stacks, Constructs, CDK app and CDK build Pipelines, Code Build, Code Deploy, CloudWatch, Auto Scaling, Cloud Formation, Cloud Trail, Cloud Config, Well-Architected Tool

Sales Data Limited – June 2020 to Nov 2021

Architect

Hybrid Cloud Solutions, Omni channel Platform, Mobile devices (iOS) and Android, B2B API

Key Technologies

AWS, AWS Lambda Services (Serverless Architecture), .Net, Microservices, Containerisation, API Gateways, AWS RDS (no-sql), SQL Server, AWS CDK, CI/CD, GitHub,

Key Responsibilities

- As SA my key objective was to provide E2E solution and ensure the technical delivery of the SaleData platform software and products of (eCommerce platform) that enabled sell data (2.6bn).
- Project migrate on-premise on .Net and Java Microservices to AWS Serverless architecture. Services were exposed as HTTPS endpoints (internal and public-facing) using Lambda Aliases and API Gateways.
- Worked across the Business and with business partners to provide input into the long-term e-commerce strategic plans and assist in implementing them in the e-commerce architecture
- Coordinate with the web developers, e-commerce marketing team, and e-commerce analysts for the effective completion and working of the e-commerce application
- Integrate new payment methods with Visa, MasterCard, Discover, AMEX and Strip, Revolt and PayPal.
- Supervise the e-commerce developer team and sees to it that the given tasks are completed according to the architecture designed.
- Design an Architecture Framework that lays out the components for applications and infrastructure development and service delivery and their relationships.
- Evaluate and choose the best technologies, components and subsystems to build efficient and performing product features.
- Translate client's business needs into business and technical development activities, providing responsible consulting delivery leadership in discovering and shaping opportunities, solution development, proposal generation, Return of Investment, and Service Level Agreement Communicate and document designs
- Provided Technical solutions, problem resolution, critical thinking around development approach, tradeoff resolution, and code reviews/QA.
- Support the approach and delivery scope/effort estimation/team definition of future projects.
- CDK CICD (Continuous Integration) Pipeline was established to deploy code from GitHub to Development and Stage servers for testing, and versioning and code was managed using AWS SAM.

AXA Insurance, <https://www.axa.co.uk>, August 2019 to March 2020

IT Architect (Consultant)

Key Technologies

AWS, Azure, Microservices, Oracle 12c, DB2, SQL Server 2012, .Net and C Sharp, Web Methods 8.1 (AG Designer 9.8, Integration Server, TFS/Azure DevOps VSTS, Mainframe, Out Systems, Confluence, Salesforce (CRM), Apex Data Loader, WaterTrace (insurance) / BDX / IQuote, ETL, ESB, BizTalk 2016 on-premise. Azure, Integration, Azure Data Factory, Azure Data Stream, BI, Azure Data Analytics, Logic Apps, Functions, Agile, CI/CD, Azure Service Fabric (ASF), Microsoft Azure Cloud Architecture, DevOps, DevSecOps and Security. Azure Ad, Security Centre, AWS, Docker, Containerization, AWS App Service-Mesh, API Gateways, AppDynamics

Projects

- Migration and enhancement to AXA-AI Finance collections and reconciliation, payments solution (AXA Global Project of Cash Management, Treasury, Debt & Risk Management, Collection Mgt).
- AXA internal Audit insurance productions for commercial insurance cases
- Rebranding of Commercial Portals
- Digital Mail Room, Data protection and management of secure content, in compliance with FCA and GDPR regulations.

Responsibilities

- **Reasonable for providing solutions across AXA digital transformation projects**
- Provided business and technical **leadership**, creating **HLD and low-level designs** documents and support in delivery.
- Worked proactively with various groups (Business, Underwriting, brokers, auditors, compliance and various technical teams) within the AXA to identify challenges and to devise available solutions by providing security expertise on complex technology issues.
- Designed and implemented the **Digital platform utilizing Azure Cloud and Marketing Cloud solutions using Agile Scrum methodology**
- **Created technical direction in design decision meetings to assist in the overall solution design**, guide team members to effect performance and capability development, high-level designs and writing technical specifications
- **Designed/provided Microservices-based architecture on Azure Service Fabric cluster for lead management system to replace existing sales tool.**
- Recommending end-to-end IT security solutions, including architecture/design, process creation and development and basic project management, all in line with industry good practice.
- **Working individually and as part of a team to carry out the end-to-end delivery of solutions and produced clear and consistent technical, management and commercial documentation.**
- **Assessing core capabilities within a client information security function.**
- **Recommending specific approaches for quick wins and longer-term business improvement.**
- **Confidently scoping complex and critical projects as well as (high level and detailed) deliverables**
- Participated in creating **EA Strategy EA Maturity Model EA standards, policies and processes EA Training and EA communication Future states of Business and Technology Architecture blueprints for new business initiatives.** Developed and implemented Portfolio life cycle management process. Evaluated Technologies, Tools and Vendors
- **Provided technical leadership, coaching team members toward successful completion of all goals and providing coordination with an offshore support group.**
- Designed for Docker based container solutions. Responsible for API integration, cloud deployment strategy, Docker-based containers, workflow automation and DevOps.

AQA, Manchester, <https://www.aqa.org.uk>, **April 2019 to June 2019**
Architect / Technical Lead (Consultant)

Projects: Digital Transform project for AQA Examination, Sales and Finance applications (ESB, BizTalk 2016) on-premise, and Azure logic App Service and Cloud Services, Azure Service Fabric, SQL Server, Oracle 11g), Azure Cloud Services (PaaS & IaaS), Application Insights, Azure Monitoring, Key Vault, Visual Studio Online (VSO) and SQL Azure. DevOps tools

Responsibilities

- A senior member of **AQA architectural board and Tech groups teams for developing an ESB and Enterprise Service Bus application using oriented methodology and pattern.** Acted as **Architect and Technical Lead across projects and work streams.**
- Helped to strategies AQA technology platform to build and integrate the legacy application with Cloud services.
- Create **Solution Architecture based upon BizTalk 2016 and Microsoft Azure App Logic Services**
- **Worked closely with different stakeholders and provided architectural improvements, design and integration solutions**
- **Designed and developed Cloud Service projects and deployed to Web Apps, PaaS, and IaaS.**
- **Defined data model for each confidential service** for managing information.
- **Implemented messaging infrastructure that connects the components and services, ideally in a loosely coupled manner to maximize scalability.**
- Created **Low-Level Design / Technical Design Documents** TTD (Detailed technical Design), Business Functional Design Documents Create technology road document for development and deployment standards/guidelines
- Created solutions based on **Message Channel, Message Translation, Aggregator, dynamic Content and Splitters** and Workflows with **ESB Expectation management services**
- Created Low-Level design to integration **(B2B) services and externals partner applications.**
- Designed **solution for various system components ESB (BizTalk Platform) and Microsoft Azure App Services**
- Designed **Microservices-based architecture on Azure Service Fabric cluster** to replace existing legacy apps.
- Provided **CI/CD solution to automate build & deployment process** using PowerShell, Release Management Online
- Led **workshops for on-shore and off-shore development teams.**
- Provided **Sprint Demo to client and stakeholders.**
- Participate **Sprint planning meeting, Daily Scrum, Sprint review meeting, and Sprint retrospective meeting**
- **Design and implemented Logic Apps, Azure Service Bus(Queue, Topic, Event Hub), App Service, Cloud Services, Power BI embed, Azure Functions, CDN, Blob Storage, Azure Data Factory, Azure Active Directory B2C, Cognitive Service(Product Recommendation), API management, Resource manager**
- Provided solution for Microservices based architecture on Azure Service Fabric cluster for lead management system to replace existing legacy apps.
- **Coordinate with external teams to reduce data flow issues and unblock team members**
- **Primary point of contact for a DevOps teams on development and cloud infrastructure including bug fix and feature requests.**
- **Coached developers and product teams on Agile / DevOps approaches, including design and implementation of virtual and physical Kanban boards.**
- Collaboration with DevOps teams and Product Owners to standardize process with SOX compliance - On/Off-boarding strategies Worked closely with architectural community to define Software Assurance Model for both cloud infrastructure and application, including best practice, processes and workflows.
- Worked collaboratively across a portfolio of programmes with engineering teams as a DevOps, Security and Cloud subject matter expert.

Barclays July 2018 to April 2019
Solution Architect

Projects:

- **Created E2E solution and design for Barclays (UK) cloud service mesh run-time platform for hosting containerized services, which met the demands of Barclays Bank business requirements and Barclays Cloud Strategy for the entire Barclays (UK) Estate.**
 - Created Barclays ServiceMesh detailed end-to-end document for ServiceMesh that **digital transformation from monolithic (Mulesoft ESB and RedHat OpenSift containers-platform) to micro-service architecture in the Cloud.** Ensured the solution met business services and non-functional requirements for Barclays Cloud Strategy.
- Created and assisted in the delivery end-to-end solutions for **Barclays (retail) travel insurance packs**
 - Created E2E detailed design and assisted in the delivery of Barclays insurance travel plus to migrate to the cloud
- Created the feasibility assessment to migrate **EOY TAXISA to cloud (Microsoft .Net RESTful Services, SQL Server Migration to the cloud and .Net (C#) application migration to the Cloud)**
- Created the migration assessment for **Barclays Open Banking Consent Data (Oracle) to the cloud.**
 - Barclays **Dormancy & Dormancy Claims - Migration from monolithic service to mesh services, Dormancy SQL Server and data migration to the cloud**
- Created the migration assessment for **Barclays Electronic Cash ISA –**
 - **Solution of migration Cash ISA service (Batch Processing, ETL & Data migration, SFTP of transfer of ISA data in/out)**
 - **Migration ECI DB2 databases, integration messaging service to cloud**
- Created the migration assessment for **Barclays Mortgages Services–**
 - **Provided solution for the migration and upgrades to the existing mortgages products and services (On-line residential mortgages applications and buy-to-lets products). E2E implemented new modules into the existing Barclay Mobile App for residential mortgages services.**

HMRC July 2017 to July 2018

Technical Architect

Project - Digital transformation and migrated project to replace the existing ESB's monolithic systems (Ws02, webMethods and BizTalk 2010) with new platform through containerised micro services.

Architecture methodologies, patterns - SOA, Control Bus, Content Based Routing, Dynamic Routes, Content Enrichment, Content Filters, Idempotent Consumers, Guaranteed Delivery and Message Gateways, Object-Oriented Design, Brokering services, Micro Services and DLS architecture patterns, Async. pub/sub communication (Event Bus), Resilient Cloud Applications

Technologies – Java 8, 10, Spring-Consul, Spring-Boot 2, Spring Cloud, Docker Alpine, Netflix Zulu, Camel 2.2, Node.js, XML, JSON, XSLT, JDBC, RHEL 7, JMeter, JBoss, AWS RDS MySQL, AWS RDS PostgreSQL, AWS RDS Oracle, Swagger API, HasiCorp Terraform, Ansible, HasiCorp Packer, Docker CE & EE, Docker Compose, YAML, Groovy, GitLabs, Jenkins, Maven, SonarQube, Anchore – CVE/OWASP, Artifactory, Docker & K8/Kubernetes, Containerisation, Python 3, Jira and Confluence, SSL, ELK, PaaS, SaaS, Hybrid Platform AWS, Azure and On-Premise Data Centers

AWS - EC2 Containers, Lambda, Elastic Beanstalk, S3, EBS, EFS, Storage Gateway, Snowball, RDS, ElastiCache, Direct Connect, CloudFront, IAM, DNS, Single Sign-On, Vault

Azure - Regions, VM, AKS, Container Instances, Functions, App Service, Service Fabric, Cloud Services, Blob Storage, File Storage, SQL Database, CDN, Multi-Factor Authentication, Security Centre, App Centre, Vault

My key responsibilities

- Created solution design document in response to the project business requirements for HMRC Digital Transformation project. The solution interfaced with all sub divisions HRMC that and adhered to HMRC's architectural principles, which underpinned the delivery of strategic platforms. The solution handled polyglot micro-services that were containerised.
- Created KKD's with key stakeholders to achieve technology approvals
- Created the detailed infrastructure design for CI/CD designs with FST, IST, Clone and Production that consisted of Cloud hybrid solution (premise and cloud based integration with AWS, Azure and Cisco Cloud Centre).
- Solution consisted of decomposing distributed monolithic ESB platforms to micro services architecture, which were containerised
- Ensured that the solution patterns provided were effective, robust and cost effective so that could be delivered and supported.
- Applied architectural patterns and blueprints, that supporting the agile and phased delivery
- Provided assistance and domain knowledge to TDA and SME's to assure the integrity and dependency mapping across roadmaps by using architectural principles, methods, models and tools to document and help transform a business.
- Providing IT technical leadership, consultancy, expertise and direction
- Led workshops to build employee knowledge and skills
- Engaged with partners in testing, release management, and operations to ensure quality of code development, deployment and post-production support
- Created reference architectures, patterns and standards in the information/data domain for all service types within the business
- Created Environment (Environment-Relative Configuration for Server Deployments) strategy and guideline documents
- Provided designs for architectural impact covering performance, security, quality and of ownership

Inmarsat, satellite Telecom & Commination

Solution Architect (EMEA, North and South America) February 2017 to July 2017

Project - Digital Transformation and Migration Project - Key responsibilities was to create the low-level design for a new digital platform hosted in AWS that allows Inmarsat Telecommunication and Satellite provisioning of services for Internal and public customers.

Architecture methodologies, patterns

SOA, Agile, ESB, EAI, ETL, UML, ESB Messaging Patterns, Digital Platform, SPRAX EA, Object-Oriented Design, Brokering services, AOP, Business Process Modelling (BPMN), Spring, Hibernate, Micro Services architecture patterns

Technologies

Hybrid and Public cloud (AWS, GCP, Azure, OpenStack) and PaaS (Docker, Kubernetes, CloudFoundry, OpenShift, OSDE), VPC, VPN, DNS, CloudFront, IAM, Ping Federation, RDS MySQL, Neo4j Graphical DB, SFTP, Red Hat JBoss FuseESB, CAMEL, Apache Karaf, BPM Suite, BRE, JDBC, SOAP, XML/HTTP and RESTful HTTPS, SSL, Jenkins, Marvin, Java, GIT

(PaaS, SaaS), AWS, Hybrid and Public Cloud Solutions, CloudFoundry, SaltStack, Puppet, Chef, SaaS Db Solution (Percona MySQL)

Microsoft .Net 4.0, C#, BizTalk Server 2010, WCF Services, BAM, TPE, XML and XSLT, Swagger API

Chubb, Technical Architect (EMEA, LATAM and ASAPC) January 2014 to December 2017 (Contract)

Methodologies and Patterns Applied –SOA Solutions, ESB Message Patterns, DevOps, UML, Aggregator, Content Based Patterns, Wire Tap, Splitter, Parallel and Sequential Convoy Patterns, Object-Oriented Design, Brokering services, AOP, Business Process Modelling (BPMN) , JEE (JDBC, JNDI, EJBs, JSP, Java servlets, JTA, JavaMail), Spring, Hibernate, Java EE APIs, ArchiMate Modelling Tool, Data and Application modeling, business object modeling, Micro Services architecture patterns

On premise Technologies Stack - Microsoft .Net 4.0, C#, BizTalk Server 2006, 2010 and 2013 WCF Services, BAM, TPE, XML, XSLT, Custom Adapters and Pipelines, VS 2010, VS 2012, WMI, SQL Server 2008, T-SQL, RTC, Oracle 10, WCF LOB Adapter, ESB Toolkit 2.0, Itinerary Services, Itinerary On-Ramps/Off-Ramps, Custom Pipeline Components, ESB Exception Management Framework, Nant, MS MSI WiX. Web Services, WSDL and UDDI, SOAP, API, WCF, ASMX, Web services, RESTful Web Service, XML, JSON

CLOUD - (PaaS, IaaS and SaaS), Azure Services. Hybrid Cloud Solutions, CloudFoundry, SaltStack, Puppet, Chef, PaaS Solutions (NoSQL, MongoDB, DocumentDb), SaaS Solution (SQL Server 2012), Azure Data Lake, U-SQL, Hadoop and Azure Data Lake Analytics.

Azure - App Services, CDNs and Media Services, Resource Manager (ARM) and Templating, DC/OS, Docker swarm and Kubernetes, OMS, Log Analytics, Relic, Loggly , App Services, Storage, Data Access, Cloud Security, Azure CM (Content Management) /CD (Content Delivery), App Integration Services

I was involved with complete SDLC off many projects at Chubb, with on-shore/off-shore model (EMEA, ASPAC and LATAM), key projects were:-

Projects:-

- **Chubb Treasury Platforms (EMEA, ASPAC and LATAM), - centralization of Chubb Global Payments Systems (B2B for commercial payments across the globe)**
- **Technology Refresh Program** (within the EMEA region). This included migration of legal systems, upgrading of End-Of-Life applications, upgrading custom developed applications and services to new platforms, (ETL) Legacy data Transformation/migration to new DB platforms and infrastructure upgrade to support the new software
- **Created solution designs for Chubb's applications** - Under Writing Portal, CSP (Custom Service Portal), (AOL) B2B Agent App's, Ace Online Velocity System, Claims Workflow Solution, Claims Awaiting Action – London Syndicate system, HFC - High Frequency Claims, Pega, Informatica, GPI (General Ledger Payment Interfaces) System, Apollo B2B Invoicing, eAccounting Co-Insurance Genius Extract, E-ABS Netherland/Dutch Insurance Services, Dow Jones System (GES), Echo Systems, E Claims, FirstRate, Chubb Sanctions Systems.
- **Migration of applications/services** from BizTalk 2006 to BizTalk 2010 (EMEA Region)
- **Integration solution of E-ABS Netherland/Dutch Insurance Exchange** Platform and Services
- **Integration solution of Lloyds Services** (London Markets service/platforms)
- **Insurance Mobile Platforms for Agents and Travel Insurance**
- **Global EMEA, ASPAC and LATAM, software/hardware migration project from BizTalk 2010 to 2013 and 2016**
- **Created and delivered Phase I for Low Level solution design Sanctions** that includes BizTalk 2010 and WebSphere MQ
- **Migration and integration of Ace and Chubb Systems**
- **Phase I Low Level design for Chubb Custom Service Portal, High Frequency payment systems**
- **Security Services Framework (Mobile, Desktop and Integrations – 2FA, Radius and Symantec)**
- **Governance for Cloud Services for Applications, Web Services Data/Storages and Security**
- **Global Cloud Suitability Assessment** for the Chubb Integration Estate(Road Map, Cloud Technical Approach, Cloud Migration Strategies, Disaster Recovery and Security Models)

Cloud Services solution/design tasks:-

- Implementation High and low-level **design Business-to-Business (B2B) solution based on a hybrid Cloud integration solution**
- **Created Cloud Suitability Assessment with migrating approach and Strategies to the cloud (AWS and Azure and Chub Data Center in EMEA, ASPAC and LATAM)**
- **Assisted in defining the integration road map for Cloud Applications with Cloud Data/Storages and Security** - S3 Solution with BizTalk and API services (.Net, BizTalk, WCF, API, RESTful Services),
- Created the validation and assessment cases for **Azure Environment for BizTalk Azure Services (WABS)**
- **Assisted in the delivered the Integrated AWS (Amazon) Integration Service / Amazon S3 implementation**

Infrastructure solution/design tasks:-

- Created the detailed integration Infrastructure specifications for applications, SIT, UAT, Performance, PRE-PROD and Production
- Provided the architectural standards and processes for Infrastructure for integration solutions (LAN and WAN)
- Created Environment (Environment-Relative Configuration for Server Deployments) strategy and guideline documents

ICS Solutions, Basingstoke,

Solution Architect, October 2013 – December 2013

Technologies - 3.5/3.0, C#, WWF, BizTalk Server 2009, WCF Services, BAM, TPE, XML, XSLT, Custom Adapters and Pipelines, VS 2008, WSDL, WMI, ADO.NET, SQL Server 2005, T-SQL, TFS (Team Foundation Server), Oracle 10, WCF LOB Adapter, ESB Toolkit 2.0, Itinerary Services, Itinerary On-Ramps/Off-Ramps (HTTP, FTP, XML, Custom Pipeline Components), ESB Exception Management Framework, ESB Management Portal, Amadeus (E-Retail Airline Engine) Connector XML API (Blend Flow, Air Modules, Airport Transfer, Online Fare Module, Master Pricier, Web Fares, Flex Pricier). Expedia API and EuroCar APIs, TFS, Nant, MS MSI WiX

Project - Client: - Faccenda Group, Part of the DLC Group (Direct Legal and Collections).

**Express Travel Market, Manchester, UK,
Principle Architect (Consultant), August 2011 – October 2013**

Technologies

OS, Virtualization Platforms, Windows Servers, Cloud Data Platforms, iOS, Android, VMWare, vSphere 5.0 Hosting Platforms

Architecture Methodologies And Patterns: SOA (Loosely-coupled and Tightly-coupled Solutions), TOGAF, Message Brokering, UML Modeling, Messaging Patterns, Aggregator Patterns, Content Based Patterns, Wire Tap Patterns, Splitter Patterns, Parallel and Sequential Convoy Patterns, DNA, UML patterns, Object-Oriented Design, Object Brokering services (O.B.), Aspect Oriented Programming (AOP), and TAP, UI/ UX And Content Data Methodologies: User Interface Patterns, Human factors engineering, storyboards, sketching, interactive prototypes, affinity diagrams, wire-framing, user journeys, persuasion design (PET), Fogg behavioral model and Lab Testing, COTS Architecture and Patterns

Database Technologies: SQL Server 2008 R2 and SQL Server 2012 R2, Development Frameworks, Enterprise Service Bus and Workflows .Net 4.0/3.5, C#, Microsoft WCF Services, XML, XSLT, SQL Server 2012 R2, WCF LOB Adapter Window Foundation Workflow, BizTalk Rules Rule Service, ESB Toolkit 2.0, Itinerary Services, Itinerary On-Ramps/Off-Ramps, ESB Exception Management Framework, ESB Management Portal,

NServiceBus, ServiceControl, ServicePlus, ServiceInsight, MSMQ and WebAPI, Mobile Platforms (Development and Design), Tablet iPad (1.0, 2.0), iPhone, Windows Mobile, Android Mobile, MS Surface Tablet

Projects

Express Travel Market - On-line Travel Comparison web application; Travel comparisons services covered Flights, Hotels, Car Rentals, Transfers, Trains, Villas and Travel Insurance. Partners (Split over 4 major software release) 640 Airlines Carriers; All Major Hotels, Car Rental, Transfers and Trains and Villa Partners; Hybrid Comparison engine that was created on AI Technologies; Multichannel public application; One of world largest selection for Airlines Seat Maps and Airports guides, that will be available On-line and any hand held devices.

**Maginus Software Solutions, Manchester,
Rechnical Integration Architect - June 2011 - August 2012**

Methodologies and Patterns Applied –SOA Solutions, Message Patterns, DevOps, Messaging Patterns, Object-Oriented Design, Object Brokering services, AOP, ETL, Business Process Modelling (BPMN), agile methodologies, COTS Architecture and Patterns, Micro Services architecture patterns

Technologies - Microsoft .Net 4.0, C#, BizTalk Server 2010, WCF Services, BAM, TPE, XML, XSLT, Custom Adapters and Pipelines, VS 2010, WSDL, WMI, SQL Server 2008, T-SQL, Team Foundation Server, Oracle 10, WCF LOB Adapter, ESB Toolkit 2.0, Itinerary Services, Itinerary On-Ramps/Off-Ramps (HTTP, FTP, XML, Custom Pipeline Components), ESB Exception Management Framework, Nant, MS MSI Wix. Microsoft Dynamics AX 2012 (Retail Modules), X++, SSRS, SSAS and SSIS; Microsoft Dynamics AX 2012, AX 2009; Microsoft Dynamics AX SSRS; Microsoft Dynamics AX Workflow; Microsoft Dynamics AX AIF Framework; Microsoft Dynamics AX Design and Development; Microsoft Dynamics AX Deployment and Infrastructure; Microsoft Dynamics AX 2012 - Dimension Framework; Microsoft Dynamics AX 2012 – Retail Sector;

Projects

- **COOP PHASE 1: Solution for other E-Commerce Coop's System and E-Commerce Platforms**
- **COOP PHASE 2: Co-op Electrical Shop is owned and operated by the Co-op Group**
- **EPOS (DYNAMIC POC) – Integrated (BizTalk 2010) with Dynamic ERP and Dynamic CRM Modules, The POC solution was based on On-line Store, integration platform and Mobile devices).**

**Fujitsu UK, Slough –
Senior Consultant, May 2010 –June 2011**

Technologies

IBM Rational System Architect applied with TOGAF for enterprise architecture; Business Process Modelling Notation (BPMN); Alta's Environment Configuration; Net 4.0/3.5, C#, BizTalk Server 2010, RestFull and WCF Services, XML, XSLT; UML, SOA (Loosely-coupled and Tightly-coupled Solutions), TOGAF, Message Brokering, UML Modeling, Messaging Patterns, Aggregator Patterns, Content Based Patterns, Wire Tap Patterns, Splitter Patterns, Parallel and Sequential Convoy Patterns;

Project: MOD (Ministry-Of-Defense) classified project at TVP.

(BMI) British Midland Airways Limited, Derby, Technical Integration Architect- July 2009 – May 2010

TECHNOLOGIES - 3.5/3.0, C#, WWF, BizTalk Server 2009, WCF Services, BAM, TPE, XML, XSLT, Custom Adapters and Pipelines, VS 2008, WSDL, WMI, ADO.NET, SQL Server 2005, T-SQL, TFS (Team Foundation Server), Oracle 10, WCF LOB Adapter, ESB Toolkit 2.0, Itinerary Services, Itinerary On-Ramps/Off-Ramps (HTTP, FTP, XML, Custom Pipeline Components), ESB Exception Management Framework, ESB Management Portal, Amadeus (E-Retail Airline Engine) Connector XML API (Blend Flow, Air Modules, Airport Transfer, Online Fare Module, Master Pricier, Web Fares, Flex Pricier). Expedia API and EuroCar APIs, TFS, Nant, MS MSI Wix

PROJECT: Online e-commerce booking engine for BMI Airlines reservation and booking systems (GPS, PSS and CRS integration system)

Role/Responsibilities

- I was responsible for the integration design and delivery of BMI Airlines' e-commerce booking engine and integration of hotel and car rental platforms. Architect and Technical Lead across the projects.
- Provided E2E solution to redesign and re-platform the legacy booking engine to Cloud services.
- Worked closely with different stakeholders and provided architectural improvements, design and integration solutions.

- Created Low-Level Design / Technical Design Documents TTD (Detailed technical Design), Business Functional Design Documents Created technology road documents for development and deployment standards/guidelines.
- Created Low-Level design to integration (B2B) services, affiliates and external partner systems.

Solution

As a Lead Technical Architect and Integration Lead at BMI Airlines, I was responsible for the design and delivery of the integration solutions for reservation/booking engines. This was a complete rewrite of the e-commerce platform and backend systems that encapsulated the customer's online E2E journey and integrated the airline's IT distribution landscape. At a high level, the integration solution consisted of the model/stack: -

1. Sales (IBE and OTA)
2. GDS distribution channels/Marketplace (Consolidators, Aggregators and Tour Operators)
3. Integration Management Stack (1) CRS (Altea – Amadeus) (2) CRMS/CRS (car hire, Taxi, hotel travel operators)
4. Customer Service and Experience Management (CRM, Loyalty, Customer Experience and Promotions)
5. Operations (GOPS, Flight operators/operations)

The integration solution covered the supply side that differentiated into providers for air travel, cars, hotels, taxis, hotels and from end customers who act via an agent for the most part to obtain an adequate overview of the multitude of offers. The solution were divided into five parts (a) Supplier (airlines, hotels, car rental companies), (2) Inventory management (administration of the inventory in a CRS), (3) Distribution: (Global Distribution Systems (GDSs), but also this key part as aggregators, consolidators and organizers) (4) Sales End customers can arrange their travel purchase through the agency/TMC, one of the online agencies (OTA, OTMC) or even the provider directly on the corresponding website (direct) and (5) Market (travel operators)

The solution inventory system was integrated with the CRS. This contained all the airline's flights and the available seats. The main function of the inventory system is to define how many seats are available on a particular flight by opening or closing an individual booking class by rules defined by the operators/airlines. Also, the solution integrated with the departure control system is the system used by airlines and airports to check in a passenger. The DCS is connected to the reservation system, enabling it to check who has a valid reservation on a flight.

GHA (Glasgow Housing Association Ltd), Glasgow, Technical Integration Architect - January 2009 – July 2009

Technologies

3.5/3.0, C#, WCF Services, WWF, BizTalk 2004, BizTalk 2006 R2, BAM, TPE, XML, XSLT, Custom Adapters and Pipelines, VS 2008 / VS 2005, WSDL, WMI, ADO.NET, SQL Server 2005, T-SQL, TFS (Team Foundation Server), Oracle 10, WCF LOB Adapter, BizTalk 2006 R2 (32bit and 64Bit), ESB Toolkit 2.0, Itinerary Services, Itinerary On-Ramps/Off-Ramps (HTTP, FTP, XML, Custom Pipeline Components), ESB Exception Management Framework, ESB Management Portal;

SharePoint 2003/2007(MOSS), SharePoint Lists, Documents Lib, SharePoint Adapter, SharePoint WebParts, CAML, InfoPath, SharePoint Services (WSS), SharePoint Definitions Document and Images Libraries, CAML Query, Workflows and SP Client Office Microsoft BackOffice Integration tools and MOSS event handlers, SharePoint Packaging and deployment on 32Bit and 64Bit Processing Environments

HOUSING APPLICATION, Northgate SX3 system, Northgate Integrator, Northgate Web Services, Northgate v5,

Project: HOMECHOICE, Glasgow City Council, Local and Social Housing - Property Rental on Management Platform

CODit, Belgium, Technical Architect - November 2008 – January 2009 (Previous role was VIRGIN MEDIA)

TECHNOLOGIES - 3.5/3.0, C#, WCF Services, WWF, BizTalk 2004, BizTalk 2006 R2, BAM, TPE, XML, XSLT, Custom Adapters and Pipelines, VS 2008 / VS 2005, WMI, ADO.NET, SQL Server 2005, T-SQL, SharePoint Services, TFS, SharePoint Adapter, CAML, InfoPath

EDENBROOK (UK) LTD, Senior BizTalk Consultant - December 2005 – April 2006

Technologies - BizTalk Server 2006, .NET 2.0, C#, VB.NET, Microsoft, Visual Studio 2005, Team Foundation Server, SQL Server 2005, XML, XSLT and VBScripts, Web Service, Windows Services, ASP.NET, SQL Server, SQL, GAC, WMI

Client:

- **MITCHELLS & BUTLERS - FINANCIAL/SALES FROM THE RETAILS SYSTEM**
- **BUPA UK - Swift Payment Systems**
- **(RSA) ROYAL SUN ALLIANCE**

Architect and Design for a B2B and EIA BizTalk applications for the insurance market (quote/policy) capable of processing high volume of traffic. Applications allowed IBM mainframe based quote/policy engine to be accessed by external trading partners. Messages were exchanged externally using- Flat Files, EDI documents and SOAP request / response messages. The designs made use of WSE Web services, Covast EDI Adaptor, BAM, BRE, Orchestrations, Custom Pipelines, IBM MQ series, Complex XSLT mapping, advanced correlation techniques and C# helper components.

VIRGIN MEDIA (FORMALLY NTL: TELEWEST LTD), Hook, Hampshire, Senior BizTalk Consultant May 2002 to December 2005, then returned to Virgin Media from April 2006 – November 2008

TECHNOLOGIES - BizTalk 2006/2004/2002, BAM, TPE, XML Schemas, Document Maps, Pipelines, XML, XSD, XSLT, C# 2.0/1.1, ASP.NET 2.0/1.1, Web services, HttpModules, MasterPages, Profiles, CSS, JavaScript, ADO.NET, MS SQL Server 2005/2000, SQL Server Management Studio, VB 6, MSMQ, MQ Series, COM+, GAC, WMI, IIS 6.0/5.0, SSL, VBScripts, Onyx EAS (CRM), NDOC, NUNIT, Oracle 8i, Unix, Windows Services, SharePoint 2003, MOM, SOAP, UDDI and MSI, Install Shield 8, Quick Test Professional, Visual Builder Pro, Mercury Test Director

PROJECT: HARMONY, Migration of all NTL on one single platform, this includes NTL: Home (telephone, TV, and internet products to residential customers), NTL: Business (telephone, data, and internet products to businesses and public organizations) and NTL: Broadcast (broadcast and transmission services and equipment to media broadcasters, central government and the emergency services). Current system processes approximately 89per/s, average 7.6 million messages a day.

Imparta Ltd, London, Senior Programmer - February 2002 - May 2002

Technologies: Visual Basic .Net, ASP.NET / ASP, COM+, VB script, Java Script, HTML, CSS, DTML, XML, XSL, ADO.NET / ADO MS SQL Server 2000/7, Install Shield

NETg Limerick, Ireland, Senior Programmer - August 2000 – January 2002

Technologies: Visual Basic 6.0, Crystal Reports, COM+/COM, UML, MTS, ADO, ASP, XML, XSL, DTD, XML CSS, XML CDATA, JavaScript, VBScript , VC++, MS Access, SQL Server 7, SQL Server 2000 and Oracle 8i

PROJECT: Precision Skilling, Governance Training and leaning systems for the US

Hewlett-Packard, Agilent Technologies, Germany, Senior Programmer - June 2000 – August 2000

Technologies: VB 6.0, COM, ADO, XML, XSL, JavaScript, VBScript, MS Access, SQL Server, Crystal Reports and ASP

Project: Science Data Collection Systems

Yates's Group PLC, Bolton, System Analysts Programmer - June 1997 to June 2000

Technologies: Visual Basic 6.0/5.0, COM+/COM, DLL's, ADO, DAO, ASP, XML, XSL, JavaScript, VBScript, MS Access, SQL Server 7/6.5, ASP, HTML, ActiveX, e-commerce, IIS/Windows NT 4 Option Pack (Index Server, FTP, SMTP, NNTP, MSMQ, Transaction Server, and SSL).

Zeneca Pharmaceuticals Ltd, Manchester - System Analysts Programmer June 1996 – June 1997

Technologies: Visual Basic 4.0, MS SQL Server 7/6.5, MS Access, COM, VSM, UNIX, VBScript, DAO, XML and Crystal Reports

Vektor, Preston, - May 1994 – June 1996 - System Analyst Programme Technologies: Borland C/C++ Windows/ VB 3/ MS Access, PARADOX IV

PROJECT: Muzzy, BBC Interactive English

Develop modules for the muzzy interactive learning CD software; My other tasks included creating tables, view's, stores procedures, transfer data.

HOBBIES AND INTERESTS

Architecture, Design and Art, Running, Tennis, Golf and Badminton