**SANJEEV KUMAR KODAVALLA**

Cloud Enterprise Solution Architect

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**Professional Summary**

* Having 17+ years’ experience as Azure Cloud Enterprise Solution Architect, designing, developing and delivering end to end solutions using Microsoft tech stack and Cloud platforms. Possess a proven ability to lead project teams to successfully deliver solutions of the highest quality, often in complex and challenging customer environments.

**Certifications**

* Microsoft Certified Azure Solutions Architect. (70-535)
* Microsoft Certified Power Platform Fundamentals (PL-900)
* MCP from Microsoft in Web Applications and Web Services
* Exin Certified Scrum Master and Cognizant Certified Architect.

**Skills Summary**

* Cloud Technical Architect with experience in Microsoft full stack technologies like .Net, Azure Platforms.
* Expert in App modernizing using microservice architecture and Azure Services (ARM template, Storage, Vnet, Subnet, Load Balancing, VM Scale set, High Availability, AD, Logic App, Azure function, App Services, Data Shares, Kubernetes, Docker, Container Registry, Application Gateway, Front Door, Traffic Manager, CDN.
* Experience as a DevOps methodology experience in Source code management (Git, GitHub, SVN), Code quality analysis (SonarQube), CI/CD (Azure DevOps/ Jenkins) Containerization (AKS and Docker), Cloud infrastructure (Azure & AWS).
* Expertise in architecture models to reflect the organization's strategies, goals and creating and implementing business visions and goals.
* Expertise in evaluating internal functions, business development strategies, and IT processes and suggesting improvements.
* Expertise on creating methods for compliance architecture, such as data storage, metadata management, and change control.
* Interactions with business stakeholders for functional and technical solution development.
* Involve in design review, documentation, quality checks and process improvements in all stages of software development from inception to deployment, performance improvements, till support.
* Design and deliver architecture and technology workshops with stakeholders to understand Integrations, Functional and Non-Functional.
* Map customer requirements and business problems to re-usable end-to-end technology solutions.
* Guide and Coach teams on solutions and design for successful delivery.
* Define the digital solution across process, application, and infrastructure layers, to respond to the business challenge through prototype, MVP / pilot to production.

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| * **Microsoft Azure - Cloud Services (PaaS) Storage, Web Apps, Web Jobs, Active Directory, Key Vault, Function,** Event and IOT Hub & Storage, Stream Analytics, Pipeline, Power BI, ADFS**.** * **C#, .NET, ASP.NET, ASP.Net MVC, Web API, REST API, WCF, .Net Core, Win Forms**, Oracle ADF. | * Lotus script, Formula Language, Open LDAP, Open XML, High Jump, R5 office (News Page) * Html5, CSS, Bootstrap, SASS, LESS * **Python** * **React** Js, Redux, Type script, ES6, Angular * Lucid, Viso | * SQL Server 2000-2005 * Oracle 11g, PL/SQL * Data Modelling * BI stack (SSIS, SSRS). * XML, XSD, Open XML * TFS, GIT, SVN, Jira * **SharePoint 2010, 2013**, MuleSoft 4, * **MS-CRM-365**, Biztalk 2006. |

**Functional Knowledge**

* Functional Expertise in Sales Compensations, NMS, Insurance, Energy and Utilities domains
* Experience in Application areas viz. Sales Domain, Network Management and Survey Management, Logistics and Warehouse Management system

**Professional Engagements**

**Azure Migration:**

**Client**: Oxford University Press (OUP) is a department of the University of Oxford. It furthers the University's objective of excellence in research, scholarship, and education by publishing worldwide.

**Cloud Transformation:**

Analyze the list of Business applications on the basis of On-Premises server location

Application assessment, Classify the applications (Contain, Maintain, Invest)

Assess Cloud readiness Application resilience, Perform Software Compatibility Validation and Analysis for applications identified for Re-Platforming, Identify & provide recommendations for Cloud migration.

**Objectives of the program:**

Develop and host identified business applications in Azure Cloud. Followed migration strategy pattern 5R(rehost, re-platform, re-factor, rebuild, re-architect) to suggest business stakeholders.

As a part of migration approach, we have followed Azure cloud adoption framework and checklists recommended by Microsoft.

As a part of re-architect, I have involved in designing and development of Azure PaaS services such as (azure functions, logic apps, azure sql database, key vault, redis-cache) for end-end delivery of migration applications.

* As a cloud solution architect, I was actively involved across the delivery lifecycle for set of applications in 2 waves from designing the solution approach, with options of 5R’s.
* Creation of design artifacts, technical design document detailing with migration approach of 5R’s
* Capturing additional requirements by interacting with business stakeholders, infra teams to facilitate network connectivity.

**Tech Stack:**  Azure (IaaS, PaaS, SaaS) .Net, Jira, PHP, Perl, Postgres…

**Smoke Analyzer SA8**

**Client** : **British American Tobacco plc** is a British multinational company that manufactures and sells cigarettes, tobacco and other nicotine products

**Project: Smoke Analyzer** is to measure and record puffing topography data (puff volume, puff duration, puff interval, number of puffs, optical obscuration of aerosol) and provide information about the way in which people use different types of tobacco and nicotine products (e.g. combustible cigarettes, THPs and e-cigarettes). Studies involving smoking analyzers are often designed to provide key data to scientific and regulatory bodies on puffing behavior.

**Objectives of the program:**

Smoke Analyzer device used by R&D division for scientific studies is not compatible with latest devices and BAT wants a new application to be created replicating current application functionalities with device compatbility. Both applications should work side by side on same device.

**Delivered**

We build a solution to (New App **Puff Analyzer**) in latest version of .Net stack reusing 90% of core components from legacy app.

Puff Analyzer with a re-designed UI interface compatible with older devices and new devices. Users provided with options to connect device of their choice.

Design application with configurable options to connect new devices, keeping in mind of the upcoming devices in future.

Help analyzing the scientific data created in previous versions too.

* As a solution Architect, I was actively involved across the delivery lifecycle from capturing requirements by interacting with Business stakeholders, Domain Experts, Business Analysts to product development with the sprint teams.
* Involved in discussions with device manufactures on improvements for latency.
* Authored and delivered multiple documents at various stages of software development for the transformation covering the business, data, application and technology.
* Defined multiple strategy documents for enabling continuous integration and deployment.
* Engage with multiple teams (CSV) to align on the architecture designs and integrations between multiple systems.

**Tech Stack:**  Visio, Net Win Forms, Master Control, Serial devices SA7, PA1, Azure Devops.

**Total Gas & Power – Development & Enhancement of multiple projects @ Total UK**

**Client** : **TotalEnergies** Gas & Power is a business energy supplier to the UK's industrial, commercial and small and medium businesses.

**Cloud Migration Projects**

**Jules Security Remediation :** Jules online trading platform execute flexible energy contracts smoothly with a one stop trading shop for business customers. It lets gas and power producers as well as consumers to trade on the wholesale markets.

Total energies customers are provided an option to trade energy using Jules online portal and to facilitate this to Total customers profile and consumption data need to be sync at regular intervals with Jules platform. Integration is between these 2 applications is provided through the Java based Web Services hosted on on-premise Unix environment.

**Objectives of the program:**

Security enhancements in Jules application stopped daily sync jobs for import and export of data between Jules portal and SOA based services. Services need to be redesigned and deployed to address performance challenges on production server.

**Delivered**

Built a solution to run and deploy Rest API on Azure App Service.

Pushed the Docker Image to Azure Container Registry

Upgraded web services to microservice components followed by design patterns and deployed into AKS cluster.

* As a solution Architect, I was actively involved across the delivery lifecycle from capturing requirements by interacting with Business stakeholders, Domain Experts, Business Analysts in upgrade of Jules Services to Cloud environment.
* Authored and delivered documents at various stages of software development for the transformation covering the business information, application and technology.
* Defined multiple strategy documents for enabling continuous integration and deployment.
* Engage with multiple teams infra, testing and dev teams for successful release and support.

**ECOES Data Retreival:** The Electricity Enquiry Service (EES) is also known as the Electricity Central Online Enquiry Service (ECOES). C&C group provides services to fetch customer electricity connection supply history along with key attributes information like Data Aggregator, Data Collector and Meter Operator.

**Objectives of the program:**

Total Energies need to pull customer connection details frequently, one a week to keep data in sync to generate accurate billing information. To Perform this weekly task business users, use Excel Add-In tool to fetch data for about 200 thousand customers and to complete this entire process it takes around 10 hours for one resource monitoring the tool at every 10 minutes. Request is to automate the entire process to fetch customer information and sync data.

**Delivered**

We build a serverless solution in Azure using Durable function scheduled to run once a week.

When process begins Durable function fetches MPAN (around 200 thousand) from on premise oracle database connecting to Azure Relay and Hybrid connection.

Prepares a JSON input data block for 400 MPANs each.

Created an Azure function (core module) to take JSON input of 400 MPANs to fetch customer details and publish the output response to Event Hub.

Core Module -Azure Function is invoked for each data block input to run in parallel.

Process all responses from Event Hut to Blob storage and write the data back to On Premise Oracle database.

* As a solution Architect, I was actively involved across the delivery lifecycle from capturing requirements by interacting with Business stakeholders, Domain Experts, Business Analysts in ECOES Data Retrieval.
* Authored and delivered documents at various stages of development.
* Engage with multiple teams infra, testing and dev teams for successful release and support.
* Liaised with development team to resolve technical issues.

**Migration of On-premise Applications to Azure:** Responsible for defining the architecture landscape, roadmap and milestone for migration of applications to cloud environments.

Readiness Assessment for migrating applications to cloud and created Proof of Concepts.

**Unified UI**: Business users at Total Energies uses multiple applications (CQMS, Power Quote, Banner, LAVA) in Power and Gas streams to perform various business activities for customers like quotations, orders, contracts etc). It was planned to decommission these applications by 2021 creating an Unified user interface in Dynamics -365.

Business components in legacy applications are tightly couple and need to be re-written to provide consumable services to CRM Dynamics 365. Migrate few entities of customer data from oracle database to in build Sql server of CRM Dynamics.

We built Integration services on MuleSoft, exposed several services with asynchronous and synchronous flows. Designed the RAML based APIs using the Anypoint API manager.

Implemented the integration flows using Mule to connect Oracle database, and third applications.

Provided l exception handling api for fault analysis to be reused across all integration API.

Build connectors to process data for inbound and out systems. Data Sync services-scheduled batch processes for migration of data to Dynamics CRM. Migrating the services from Mule 3.9.x runtime to Mule 4.1 runtime.

* Analyze the business requirements and providing solution Architecture
* Create High level Design for the integration of the various systems using MuleSoft Anypoint platform.
* Provide technical leadership, mentoring and directing the development team.
* Participate in Code reviews, knowledge sharing and ensure quality of the work.
* Design and implementation of the application process flow using MuleSoft Anypoint Studio.
* Accountable for capacity planning, sizing of the cores, performance tuning and packaging applications.
* Designing the APIs using RAML on the Anypoint design center.
* Setup the Continuous Integration and Continues Deployment (CI/CD) tools using Maven, Jenkins and SVN.
* Support the testing team & Use Maven tool to build & deploy the applications on to the CloudHub.
* Involved in developing exception handling process using choice-exception and catch-exception strategies for different flows.
* Create and manage different environments on CloudHub to deploy the Mule ESB application.

**Awards** (*Runner up in TOTAL UK Employee of the year 2020*)

**Tech Stack:** Azure PaaS, Asp.net, .Net Win Forms, Unix Scripts, Oracle ADF 11.2, Oracle pl-sql, SOA Services, Angular Js, JavaScript, VBScript, Java based Services, VB 6.0, MS-Access VBA macros, Mule Soft. IBM Maestro scheduler and lucid charts.

**Client : Anglian Water Digital Transformation** Projects Anglian Water is a water company that operates in the East of England.

Creation of Anglian water website with web content Management options to upload photos , data with approval process for content to be published on website. <https://www.anglianwater.co.uk/> .

We developed a website with web content management features through EPI Server Digital experience platform in cloud service. Created the web API services to integrate with SAP services.

Built pages with content approval process (stages checked out, Checked in, rejected, checked in , published) for web content uploads.

* Developed enterprise architectural artifacts, along with descriptive documentation for all stakeholders. Design and development of Web application using Episerver.
* Conduct Technical review, code reviews and identifying improvement opportunities
* Resolution of technical issues for development teams.
* Created prototype to consume feeds from social networking sites and integrate in application.
* Development for Front end module in Epi Server, Azure Functions.
* Oversee planning and runbook creation for deployment multiple environment and integrations.
* Monitored Performance Test process for defined NFR’s.

**Tech Stack:** Azure Functions, API management, EPI Server, Asp.Net MVC, HTML5, Web Api, SAP, GIT, JavaScript CSS3, SAAS

**Educational Qualifications**

Master of Computer Application Equivalence - B Level Masters Diploma in Computer Applications from Department of Electronics- New Delhi. – May 2004

**Employment History**

* Working as Sr.Architect in Cognizant from April 2015 to till date.
* Worked as Sr. Consultant in Capgemini – Mar 2007 to April 2015
* Worked as Sr. Engineer in First Indian Corporation. – Oct 2006 to March 2007.
* Worked as Sr. Engineer in Tata Elxsi. – Dec 2004 to Oct 2004.
* Worked as Engineer Sinclaire InfraTech-CVM Solutions. - July 2004 to Dec 2004

**Achievements**

* Client appreciation & Cash Award for Lotus Notes Integration Module @ Tata Elxsi.
* Star Award winner in Capgemini for years 2008, 2009 for HPIT client.
* Nakshatra Award winner 2014 in Capgemini for Singapore Post client
* Participation and awards in Innovation, Hackathon, Codenizant in Cognizant.
* **Prototyped Top 200 – innovation Idea in CTS for 2020 on using Micro services, ML, Azure functions.**
* Runner up in Total Gas & Power –UK Employee of the year -2020.