Ashok Ghattamaneni

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# Summary:

Experienced Cloud Architect with 15+ years of experience of design and deploying and managing the cloud solutions, skilled in scalability, performance, and cost optimization.

# Work Experience:

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| --- | --- | --- |
| Company | : Capital Infotech |  |
| Clients | : Ross , Dublin, CA | Jan 17 to Jan-18 |
|  | : Sleep Number, MN | Feb 18 to Mar-19 |
|  | : OptumRx, Chicago | Mar-19 to Current |
| Position | : Cloud Data Architect |  |

Project: Build a cloud-based content and integration platform that unlocks data for consuming applications on digital and marketing channels adhering to the organization standards of security, availability, reliability, and performance.

Overall Architectural Goals:

1. Cache data needed by our digital systems in the cloud de-normalized easy access format.
2. Stream changes in data from legacy systems real time to the cloud
3. Transform the streaming data into an enriched canonical format for consistency and standardization across systems.
4. Provide new reusable Microservices than encapsulate all runtime processing for a specific function into a single Microservice.
5. Group Micro services into functional domains that share nothing to support loose coupling between domains. Construct our processes in a way what leverages the advantages if the cloud including manages services, IaaS, auto scaling, multi regions etc.
6. United AI Studio is a platform that enables you to easily connect to datasets and build, deploy, manage, and scale machine learning (ML) models responsibly. United AI Studio provides federated access to existing data sources and enables users to quickly launch tools like Azure Machine Learning (Azure ML) or Azure Databricks to build new ML models and analytics.

Roles:

* Designed architectures with Microsoft Azure to meet our clients’ technical, security, and business needs.
* Involved in creating enterprise canonical models for healthcare platform.
* Execute against an enterprise data governance framework, with a focus on improvement of data quality and the protection of the organizations data assets through modifications to organization behavior, policies and standards, principles, processes, governance metrics, related tools, and data architecture.
	+ United AI Studio (UAIS) is a platform that enables you to build, deploy, manage and scale machine learning (ML) models responsibly. UAIS provides easy and secure access to data needed to build the models and run analytics. Additionally, it streamlines the assessment of responsible use of artificial intelligence (AI) metrics, which allows deployment and sharing of approved models across UnitedHealth Group (UHG). Finally, UAIS keeps the steps of model development contained in one place, which makes calculating costs more convenient and helps ensure accountability.
	+ Architected migration of databases from on-premises to cloud, using real time streaming CDC, Kafka, Event hubs and batch processing.
	+ Requirements for the Responsible Use of AI program are integrated in United AI Studio to streamline the Machine Learning Review Board (MLRB) process. United AI Studio also stores models in a common registry to support easy deployment, monitoring, and reuse of ML models and analytics.
	+ United AI encapsulates all resources (data, frameworks, models, etc.) used within the lifecycle of a ML model, creating a secure and seamless integration between data, models, and ML workspaces. It provides an isolation boundary for access control as well as data and model security, governance, and monitoring. It also allows for better cost transparency by generating a view across all resources used within the scope of the projects.
	+ By using MS Advisor to implement the Cost, Security, Operational excellence, and Performance best practices.
	+ Implemented the Azure Multi region strategy to support HADR (High Availability Disaster Recovery) across different azure services.
	+ Providing the cost projections considering the new initiatives and the cost optimization opportunities
	+ Build the Machine learning models and notebooks.
	+ Designed the Micro services (API) and Canonical models as per the enterprise architecture standards and designing the Data Models for No SQL (Cosmos, Mongo) databases to adopt Micro services architecture.
	+ Architected Azure search Indexes and Indexers and write the different queries including performance improvements. Designed and data move from On-Prem to Cloud into real time streaming. Monitoring the services for logs and generating the reports and Dashboards and collections in terms of through put, Storage, Availability. Strong understanding of multi-region environments and global connectivity.
	+ Participated in hackathons and provided the solutions.
	+ Implemented the logging using the Log Analytics, App insight’s and Splunk...etc
	+ Designed and implemented the Data Lake solutions for Operational reporting and Pipelines in ADF to move the data from different sources.
	+ Implemented the Data Bricks solution for Data Audit from source to target systems, adopted and implemented the data security patterns.
	+ Designed and implemented the Analytic solutions using Azure Synapse and Databricks.
	+ Lead and Manage the Data engineering team.
	+ Involved in creating the Kafka streams and topics.
	+ Involved in creating the Synapse to run the analytics and send the communications.
	+ Created the Pipelines, Linked Services to move the data using Azure Data Factory.
	+ Involved in moving the data from different layers as per the architecture.
	+ Created the Dashboards and Alerts to the business teams.
	+ Monitor the Cloud costs and suggest to the teams to adopt the cost-effective solutions.
	+ Implement the data security controls using private end points, Firewalls, Managed identities, vnet’s, Subnets on cloud services.
	+ Implemented the data encryptions to protect PII and PHI data and reviewed with enterprise security teams.
	+ Created and maintained the data dictionaries using Data catalog.
	+ Data governance and Data enrichments
	+ Expertise in DBA activities
	+ Report on non-compliance, data governance standards, policies, processes, etc.
	+ Translate client strategic priorities into actionable data governance plans to meet the goals.
	+ Document data lineage for current-state Risk and Healthcare data landscape (both, detailed and high-level views), Identify Authoritative Data Sources and document all data quality controls.
	+ Ensure a data-centric approach is taken in projects and issues resolution ensuring that data governance best practices are incorporated into each effort.
	+ Review the requirements from business and build the design and provide the solutions.
	+ Monitor the HDInsight cluster’s health’s and usages.
	+ Managed and maintain User Access and security policies.
	+ Involved in writing the ksql scripts.
	+ Created the ADF pipelines to move the data from different sources to Data Lake.
	+ Monitor the performance and operations using App Insights and Log analytics.
	+ Identify the long running queries with the help of metrics and diagnostic logging information.
	+ Created and Maintain the Cosmos, Azure SQL databases depending on the requirements.
	+ Automated the database deployments using terraform.
	+ Created and maintain the azure Key Vaults to manage secrets and passwords.
	+ Expertise in creating and tuning Azure Search environments and Indexes and Indexers
	+ Create and maintain Logic apps in Azure.
	+ Created the POCS with Snowflake, Tiger graph, GCP to evaluate different products.
	+ Involved in creating the Azure Functions to rotate the keys in azure key vaults.
	+ Involved with scale and settings of collections in terms through put and TTL features.
	+ Involved in Writing and maintaining the Data catalog in Azure.
	+ Created the Email Alerts to the business users using SendGrid tool as per the requirements.
	+ Created the different Visualizations in Power BI as per the use cases.
	+ Participated in daily stand ups, backlog grooming and retrospective meetings.
	+ Understood the existing data model and documented the performance of the System and subject matter expert in NOSQL, Relational and ETL.
	+ Configure data sync and migration of database to and from Premise /Azure SQL DB a
	+ Developed U-SQL Scripts for schematizing the data in Azure Data Lake Analytics
	+ Involved in migrating SQL Server databases to Azure SQL Database using SQL Azure Migration Wizard
	+ Expertise with Databricks and synapse solution.
	+ Expertise in creating and maintain the Power BI reports and dashboards.
	+ Building, publishing customized interactive dashboards, and scheduling using Power BI gateways.

Environment: Microsoft Azure, GCP, AWS, Erwin, ADF, Microservices, Azure Functions, AKS, Key Vaults, Kafka, Azure OpenAI, Attunity, CDC, Machine Learning, AI, Mongo, Graph QL, Event Hubs, Grafana, Dynatrace, Java Spring boot, Spring batch, Blobs, Data Lake, Cosmos, HDInsight, Send grid, Azure Dev Ops, Data Catalog, Hive, Azure SQL, Azure My SQL, Oracle, Siebel, Data Bricks, Power BI, Rally, GIT, XML Spy, Elastic Search, Azure Search, Terraform, Snow Flake, Synapse Analytics, GCP Big Query, Logic apps, Azure Functions, Cost Management, Splunk, Azure Service Bus

Company : UHG Jun 2011 – Nov 2016 Position : BI Lead

ECAC is mainly used by Hospitals in order to enhance the medical coding performance. Coders verify the codes that are suggested by NLP and correct the diagnosis and procedure codes for medical cases. NLP is known as Natural Language Processing system which increases a coding professional’s productivity by using artificial intelligence. It takes the input from medical case sheets and suggests diagnosis and procedure codes by referring some documents. Coding professionals still need to review the codes generated by the NLP to ensure accuracy and proper reimbursement.

Responsibilities:

* Involved in writing the Design documents for new features & Enhancements.
* Developed Logical and physical data model using ER studio and mapped the data into database objects.
* Stored Procedures, User Defined Functions, Views, Synonyms, TSQL Scripting for Complex Business Logic.
* Requirement gathering from the Clients. A series of meetings were conducted with the business system users to gather the requirements for reporting.
* Requirement analysis was done to determine how the proposed enhancements would affect the current system. Understood existing data model and documented the performance of the system.
* Extensively used joins and sub queries for complex queries multiple tables from different databases.
* Involved in Code reviews and Experience in Performance Tuning and Query Optimization using SQL Sentry Explorer.
* Lead the BI team.
* Involved in DBA activities like Always on Availability, backups, restores, logins, users & roles access in Development, QA, Stage &Preview environment.
* Getting the HL7 data from the Clients using the Clover leaf (Its parser to read the data from HL7) we are converting them into XML and saved into the database using the SMAT (Clover Leaf) tool to read the data in HL7.
* Using third party (Clearing House) applications will create the claim in the X12(Standard) format to the payer.
* Reading the HL7 files and converted them into XML to save the data into the database.
* Created the Database Unit Testing Strategy and test cases using Microsoft Visual Studio and maintained the Code Coverage documents and to address the Fortify Issues.
* Creating the database dictionaries to maintain the Database Documentation for all ECAC databases.
* Experienced in Developing Power BI Reports and Dashboards from multiple data sources using Data Blending.
* Involved in purging activities and participated in Preview and Production deployment activities.
* Using SQL Server Integration Services (SSIS) as an ETL Tool, the data has Extracted, Transformed and Loaded (ETL) from Excel and Flat file to MS SQL Server.
* Designed SSIS packages to transfer the data from flat files, Access database and excel documents to the Staging Area in SQL Server 2012.
* Responsible for Scheduling jobs for weekly, daily data refresh on different Tableau reports. Deploying and managing the SSRS reports (Data Source mappings, Subscriptions, Report models Adhoc Reports).
* Experience in designing Enterprise reports using SSRS, use of multiple value selection in parameters pick list.
* Involved in the creation and deployment of the reports using SSRS and configuring the SQL Server Reporting Server and Migrate the existing SSRS reports to tableau for Analytical Reporting
* Designed and implemented Dashboards and Scorecards with business KPIs using Performance Point Server and published them via Power BI.
* Responsible for creating and changing the visualizations in Tableau reports and Dashboards on client requests.
* Used to connect different data sources like SQL DB (SQL Query), Tabular Model (MDX Query), Web Trends to Power BI and generate reports with different visualizations.
* Involved in migrating from SQL Server 2008 to SQL 2012 databases.
* Experience in creating the SSIS Packages for integrating data using OLE DB connection from sources (Excel, CSV, Oracle, flat file, Text Format Data) by using multiple transformations provided by SSIS such as Data Conversion, Conditional Split, Bulk Insert, merge, and union.
* Designed a Data Model with multiple Fact Tables and Dimensions depending on the business requirements.
* Designing, Migrating and development of various dashboards reports, using Tableau desktop, with visualizations components like Dual Axis, Bar Graphs, Scatter Plots, Pie-Charts, Heat Maps, Bubble Charts, Tree Maps, Funnel Charts, Box Plots, Waterfall Charts and Geographic Visualization.
* Extensive knowledge in various reporting objects like Facts, Attributes, Hierarchies, Transformations, filters, prompts, Calculated fields, Sets, Groups, Parameters etc., in Tableau.
* Involved in Trouble Shooting, Performance tuning of reports and resolving issues within Tableau Server and Reports.
* Experience in Installation, Configuration, and administration of Tableau Server in a multi-server and multitier environment. Experience in converting the Cloverleaf (Using SMAT) data into XML format in SQL Server.
* Experience in various Transformations in SSIS Dataflow, Control Flow using for loop Containers and lookups etc.

Environment: SQL Server 2008/2012, Oracle 11g , SSIS, SSRS, Tableau, Power BI, GIT, ALM, Rally, SMAT, Tableau, Power BI, SQL Centry Explorer, SQL Query Stress, Profiler, ER Studio, Ranorex. ASP.net, C#.net, WebSphere, Java, Angular JS, HL7, NLP, Clover Leaf, Load Runner, Dyna Trace.

ODAR:

Responsibilities:

* + Creating and managing schema objects such as tables, views, indexes, stored procedures, and triggers & maintaining Referential Integrity.
	+ Performance tuning of SQL queries and stored procedures using SQL Profiler and execution plans.
	+ Design and build the SSIS packages.
	+ Well maintained the metrics data and reporting the same as and when required.
	+ Well-versed with database installation, Configuration, maintenance, monitoring, backups and recoveries, develop and debug Stored Procedures and Created the Databases Dictionary for the databases.
	+ Experience in creating SQL Logins, Roles and Authentication modes as part of security policies for various categories of users.
	+ Getting ready the environments (Dev, Test, Stage) to access QA and SA’s by using Team foundation server 2010(TFS).
	+ Creating & updating the data models by using Erwin 11.0.
	+ Proficient in Data Migration from sources like MS Access, SQL server, Text Files, Excel to SQL server 2008/2005 using SQL Server Integration Services (SSIS) and Bug fixing and enhancements on SSIS packages.
	+ Defined Agile best practices, definition of done and continuous Quality improvement processes.
	+ Published burn down chart, challenges/impediments, action items against each item, each team member updated status of each item in story board.
	+ Involved in TFS, IIS admin activities & fixing the Web URL’s hosting and Auto Build and Deployment

activities.

* + Involved in DBA activities Backups, Restores, Logins, Schedules, Jobs, TWS job schedules to run the SSIS Packages.
	+ Provided the Support to the end users by using the HPSM tickets.
	+ Worked as a SME (Subject Matter Expert) for ODAR and IDW products.
	+ Created the build files for releases and hosting the services in IIS to run the automated builds.
	+ Participated in Sanity checks and getting ready the environment to QA with the build changes.
	+ Facilitated backlog grooming’s, sprint planning, daily stand-up meetings, reviews, retrospectives, sprint, release planning, demos and other Scrum-related meetings.
	+ Database unit testing and test cases code coverage for databases.

Environment: SQL Server 2000,2005, 2008, Oracle 10 g, DTS, SSIS, SSRS, TFS, , Informatica Power Center 9.5/9.6, Rally, SQL sentry Explorer, Profiler, ALM, Erwin, TWS, Service Now, HPSM, Windows 2008 Server, ASP.net, C#.net

Company : Wipro , May 2007 – June 2011 Position : Sr. Database Developer.

HIS (Hospital Information System) Product has different Modules like Front Office, Admission, Ward, OT, Laboratory, Physician, Material Management System (MMS), Accounting, Stores-Purchasing, and Pharmacy Etc.

ESIC is the country's first multi-dimensional social security system for workers in the organized sector. ESIC covers a total beneficiary population of more than 355 lakhs today. ESIC has the country’s largest medical infrastructural facility under one umbrella. ESIC is the most affordable social security system with the lowest contribution rate for multiple health insurance benefits. ESIC is the only health insurance scheme that offers full medical care to workers and their dependents without any ceiling on individual expenditure. The Purpose of the module is to automate the store functionality across ESIC (Hospital/Dispensary).

Responsibilities:

* Responsible for translating the business requirements into Conceptual/Logical/Physical Models.4
* Participated in the requirement gathering sessions to understand the expectations and worked with system analysts to understand the format and patterns of the upstream source data.
* Involved in several meetings with Business Analysts to gather data requirements from business and technical users for a data warehouse environment.
* Developed multiple logical models per the requirements and validate its alignment with the enterprise logical data model (ELDM).
* Requirement gathering from the clients. A series of meetings were conducted with the business system users to gather the requirements for reporting.
* Involved in the preparation of the Design Document for the components.
* Database migration from SQL Server 2005 to MySQL 5.4 and Oracle 10g.
* Designed and developed modules to support multi location & language environment.
* Involved in the Database Design for HIS and CDR Products and exporting the data into Customer applications.
* Analyze the performance of the queries using DMV’s and optimize the Stored procedures and Queries.
* Involved in writing the stored Procedures, triggers, index creation and complex T-SQL Queries.
* Involved in Writing the Impact Analysis documents based on enhancements and issues.
* Created the Database tables and columns in Encrypted format using the DTS/SSIS packages.
* Configured the Linked Servers to generate the SSRS reports from OLTP Databases based on Client Requirements.
* Involved in the DAL (Data Access Layer) as per the application.
* Extensive experience in development of T-SQL, DML, DDL, DTS, Stored Procedures, Triggers, Functions.
* Involved in writing the design documents for new modules & enhancements.
* Involved in creating the Logical, Physical Models and Reverse and Forward Engineering using Erwin.

Environment: SQL Server 2008/2005/2000, Oracle 10 g, DTS, SSIS, SSAS, SSRS, VSS, Erwin, Windows Advanced Server, Adapt SQL, MySQL 5.4, Linux, Crystal Reports, ASP.net, C#.net, VB.net

Education:

Master of computer applications (2003-2006) from Osmania University, India.