**Ramesh Angamuthu**

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**Professional Summary**

* Microsoft Data Engineer with over 16+ years of experience in implementing **Data warehousing solutions, Data Migrations with Data Stewardship.**
* Design, develop and implement Hybrid solutions for small to large-scale enterprise data warehouse using ETL/ELT tools like Azure Data Factory (ADF), Azure Synapse, Microsoft SQL Server Integration Services (SSIS), Azure Data Studio and reporting tools like MS SSRS.
* Integrated complex HealthCare systems into Single warehouse and report data to top level management to daily users by Configuring Row Level Security [RLS] on data sets that are using Direct Query.
* Expertise in Data Analysis, Development, Testing, Maintenance and Implementation of database solutions with exceptional skills in design using Microsoft Business Intelligence Suite (SSIS, SSRS, SSAS) and Proficient in database design, T-SQL, Dynamic SQL, Complex Queries, User Defined Functions, Stored Procedures.
* Have developed dynamic Reusable-Procedures, Packages, Functions, Triggers, Cursors, Views and Performance tuning.
* Optimized the performance of queries with modification in T-SQL queries, normalized tables, established joins and create indexes, column store index wherever necessary.
* Having good experience in CICD version control tools like Team City, Azure DevOps, GitHub, TFS, Clear Case and VSS for Code Management and deployment into different environment like DEV, QA, UAT and PROD.
* Worked extensively in both Agile & Waterfall methodologies.
* Having experience in regular interaction with the Business users, Application Users and Stake Holders – all belonging to different departments and divisions to ensure the smooth running of the applications.
* Having good experience in creating SSIS framework like Error handling, memory management, Error logging, and code reusability along with Precedence Constraints, Break Points, Check Points, Logging.

# **Certifications**

* Fabric Analytics Engineer Associate (DP-600)
* Data Engineering on Microsoft Azure (DP-203)
* Microsoft Azure Fundamentals (AZ-900)
* TS: Microsoft SQL Server 2008, Database Development (70-433)
* Implementing Data Models and Reports with Microsoft SQL Server (70-466)
* Developing ASP.NET MVC Web Applications (70-486)
* Web Application Development with Microsoft .NET Framework 4 (70-515)

# **Education Background**

* Master of Computer Applications in Anna University, 2007, Tamil Nadu, India
* Bachelor of Computer Applications in Periyar University, 2002, Tamil Nadu, India

**Technical Skills**

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| --- | --- |
| Elements | Particulars |
| Primary Skills | Azure Data Factory (ADF), Azure Synapse, Azure Data Studio, Azure SQL, TSQL, SQL Server Integration Services (SSIS), SQL Server Reporting Services (SSRS) |
| Secondary Skills | Azure Data Factory (ADF), Azure Synapse Studio, Azure Data Studio, Azure SQL Server, Azure Dedicated SQL Pool, Logic App, Azure Function, Azure DevOps. |
| Databases | AZ SQL, Azure Synapse, SQL Server 2019,2014, 2008, 2005. |
| ETL Tools | SQL Server Integration Services (SSIS), SSDT 2015, SSDT 2017s. |
| Scripting Language | C#, Java Script and VB script. |
| Reporting and Dashboard Tool | SSRS and Crystal Report XI. |
| Source Control Tool | Azure DevOps, Visual Source Safe, Team Foundation Server, GitHub |
| Issue Tracker | Azure DevOps, JIRA, Confluence, ServiceNow |
| Deployment Tools | TeamCity, Octopus, Azure DevOps, DACPAC SQL Auto Deployment |
| Job Scheduler Tool | Zeke, Tidal, JAMS, SQL Job Schedulers |

###### Roles and Projects Experience

**Azure Lead / Architect Data Engineer – June 2022 to till now**

**Phoenix, AZ / Client: Microsoft**

**Project Scope:**

This project is extract the millions of data from Cosmos and Ideas Portal and load into the Dedicated SQL Pool. Parquet files are creating from Cosmos source and supply to Synapse Pipeline and load the data to Server less Dedicated SQL Pool.

**Responsibilities:**

* Created the metadata driven framework architecture to extract, load and transform the data from Cosmos and Ideas source.
* Created CI/CD pipelines for SQL auto deployment using DACPAC.
* Work closely with the management, Infra team, DBAs and end-users to create and evaluate business requirements to support the delivery of effective data solutions.
* Design, develop, optimize, maintain and support ELT processes using stored procedures, SQL Scripts and data integration tools such as Azure Data Factory (ADF) and Synapse Analytics.
* Create technical designs and functional specifications for back-end and front-end information systems.
* Participate in the development and testing of database scripts and back-end processes to support system.
* Created the GitRepo source source control environment for the team and train the team to use it for their code check in and deployment.
* Created the many innovative solutions like Dedicated SQL Pool Scale up and Scale down, Email Notification using Logic App, Created Dynamic SQL Stored Proc to load data to history table.

**Environment:** Azure SQL Server, Azure Data Factory (ADF), Synapse Analytics, Azure Data Studio, Dedicated SQL Pool, DACPAC SQL Deployment, Logic App, Azure Monitor, Trigger Scheduling, Azure Key Vault, Azure Linked Services, Azure DevOps, Incident Management**.**

**ETL Lead – June 2021 to May 2022**

**(Senior SQL Developer at Phoenix, AZ Client: Carrington Mortgage Holdings)**

**Project Scope:**

This project is the process of importing the data into SQL databases and based on the needs will insert/modify.. To maintain databases and data integration (ETL) systems to support business applications and business intelligence for the Carrington Mortgage Holdings, LLC..

**Responsibilities:**

* Actively involved in agile methodology (Kanban) and played as team member role.
* Work closely with management and end-users to create and evaluate business requirements to support the delivery of effective data solutions.
* Design, develop, optimize, maintain and support ETL processes using stored procedures, SQL Scripts and data integration tools such as SSIS.
* Create technical designs and functional specifications for back-end and front-end information systems.
* Participate in the development and testing of database scripts and back-end processes to support system.
* Integration and ETL to facilitate the creation and population of staging databases, operational data stores (ODS), data marts and other data integration solutions.
* Implement the user access controls and data security measures where appropriate.
* Create and maintain documentation of processes, databases, applications and procedures.
* Support interfaces with users and third party vendors.
* Support the design, planning, implementation, administration and maintenance of the database and ETL platform.
* Mentor and support the training of peers and business users in the proper user of the database and end-user software tools.
* Maintain the ETL process jobs and respond to critical data load issues during off hours.

**Environment**: C#.Net, TFS, MS SQL Server, SSMS, SSIS, SSRS, JIRA, Confluence, Azure Data Factory, ADF, Azure SQL.s

###### Roles and Projects Experience May 2016 to May 2021

**Senior Application Developer - (Onsite Senior Application Developer at Phoenix, AZ)**

**Client: Aetna Medicaid**

* Actively involved in agile methodology (DevOps) and played as lead role.
* Creating and Managing SSIS solution using SSDT 2015 R2 to load the data from heterogeneous source into QNXT environment.
* Creating and managing SSRS reports using SSDT 2015 R2 for different business areas.
* Automated all the ETL solution using SQL agents and created automatic notification for management purpose.
* Transformed complex business logic into Database design and maintaining it by using SQL objects like Stored Procedures, User Defined Functions, Views, T-SQL Scripting and Jobs.
* Creating and Modifying Tables, Stored Procedures, Views, Indexes, User-defined Functions, and Triggers as required.
* Created Jobs Performance report that queries system tables to track the duration of each job and weekly-average duration using SSRS.
* Created complex dynamic store procedures, functions, and all other DB objects using T-SQL.
* Creating and managing Power BI visualizations from Azure SQL database.
* Import vendor and state files into ancillary databases for QNXT process.
* SME in QNXT Member enrollment process.
* Using the Jenkins, TeamCity and Octopus to build and deploy the SSIS application on test environments and to resolve the testing and production issues.
* Using GIT Hub/TFS for version control system.
* Using JIRA to defect tracking and test case management.
* Using Service Now to raise ticket for the production deployments.
* Worked on the EDI transactions like 834, 270, 271, NCPDP and Encounter files.

**Environment**: C#.Net, TFS, SQL Server, Octopus, Team City, SOAP, GitHub, JIRA, SonarCube, Jenkins, MS Test, EDMX Framework, Azure Data Factory, ADF

**BI Project Lead – Jan 2010 to April 2016**

**(Client: Coventry Healthcare Chennai India)**

**Project Scope:**

FEP (Front End Processing) system is used to capture, manage, store, preserve and deliver content and documents related to organizational processes. FEP covers the management of information within the entire scope of an enterprise whether that information is in the form of a paper document, an electronic file, a database print stream, or even an email. FEP teamwork across different line of business and technical team to provide solutions for FEP. Develop custom software and retrieve millions of documents. Documents are scanned into Coventry high volume scanning operations and proceed through workflows for processing.

**Responsibilities:**

* Extracted data from various sources like SQL Server 2008,.CSV, Excel and Text file from share folder to Stage Database.
* Involved in creation/review of functional requirement specifications and supporting documents for business systems, experience in database design process.
* Assist in migration of MS Access Databases 2007 to SQL Server 2008 by using Import wizard and SSIS Packages in SQL Server.
* Participated in project planning sessions with project managers, business analysts and team members to analyze business requirements and outline the proposed solution.
* Developed confidential proprietary analytical tools and reports with Confidential Excel, and Power Pivot and Power Point.
* Created SSIS packages to import data from Access, Excel, XML, OLE DB Source and Flat Files.
* Filtered bad data using Derived column, Lookups, Fuzzy Lookups, Conditional split.
* Designed SSIS packages to import and transform data between databases and external data sources using various transformations like Data conversion, File system task, Row counts, OLE DB Source, OLE DB Destination, OLE DB Command, Merge Join, Conditional Split, Look up, Sort, Data flow task.
* Configure and maintain using Report Manager and Report Server for SSRS, Deployed and Scheduled the Reports in Report Manager
* Created Drill Down Reports, Drill Through Report by Region.

**Environment**: Power BI, SQL Server 2012, SSMS, SSIS, SSRS, T-SQL, Windows 7, MS Word, MS Excel, C#, Visio, SQL Profiler.

**Associate Software Engineer – May 2008 to Dec 2009**

**(Offshore Client: Sunquest Information Systems Bangalore India)**

**Project Scope:**

Radiology manages information and images into one easy-to-use, easy-to-access information source to deliver operational efficiencies.  Innovative features optimize daily radiology department operations and standardize functions enterprise-wide to deliver new patient and exam process efficiencies.

**Responsibilities:**

* As a developer using classic ASP, Java and Scripts (Java Scripts, VB Script and HTML) to develop the front-end.
* Worked on developing middle tier components using VB and Cache as backend.
* Support for efficient image transport and tracking Comprehensive Protected Health Information (PHI) security with complete audit trails to help achieve HIPAA compliance.
* Worked in Design, Coding and Peer Review of the projects.
* Created Reports for business users to visualize the data using Crystal Report.

**Environment**: Visual Basic 6.0, Classic ASP, MUMPS, Cache Object Script and Crystal Report 10.0

**Web Developer – Jan 2008 to Apr 2008**

**(Offshore Client: Canara Bank Bangalore India)**

**Project Scope:**

This project is web based financial monitoring system. The main aim of this application is user can easily monitor the service and to generate the reports based on the user rights. Project used flow the fund to higher level to particular bank account to monitoring the particular account details and report. It contains different user levels, for each user levels having different access. Administrator only can modify facilities for change password and other modification facilities. User creation facilities and modification facilities only have administrator.

**Responsibilities:**

* As a web developer to gather the requirements and analysis, involved screen and database designing.
* Involved in the creating interactive UI and complex databases design and coding using Classic ASP.
* Provided production support during warranty period for the application maintenance and troubleshooting issues.

**Environment**: Classic ASP, Java Script, VB Script, HTML & SQL Server 2000



