**Jaipal Rao Rayannagari**

# SUMMARY

* Over 10 years of IT experience as DevOps/AWS Engineer, SQL Server Developer buildingData Warehousing, Data Modeling, ETL and Business Intelligence solutions.
* Proficient in all phases of software development life cycle (SDLC), Interacting with Business Users forRequirements Gathering, Analysis, Application Design, Development, Testing, Deployments and Maintenance of Data Warehouse and Data Mart systems in HealthCare, Advertising & Media, Telecom and Finance industries.
* Designed AWS Cloud to create custom sized VPC, subnets, NAT to ensure successful deployment of Web applications and database templates.
* Designed roles and groups for users and resources using AWS Identity Access Management (IAM) and managed network security using Security Groups.
* Provided highly durable and available data by using S3 data store, versioning, lifecycle policies, and creating AMIs for mission critical production servers for backup.
* Managed Virtual servers (Ubuntu Linux and Windows) on AWS.
* Built and managed large deployment of Windows instances using PowerShell scripts and C# Coding.
* Designed and deployed AWS solutions using S3, E2C, RDS, EBS, Elastic Load Balancer, Auto Scaling groups.
* Configured S3 versioning and lifecycle policies to backup and archive files in Glacier.
* 5+ years of strong experience in design and developing ETL using MS SQL Server Integration Services (SSIS). Worked with various versions starting 2000, 2005, 2008, 2008 R2 and 2012.
* Experienced in Data Profiling, Data Integration, Data Quality and Metadata Management.
* Experience in Installing and Upgrading MS SQL Server suite of products in Windows environment from 2005 to 2008 R2 and from 2008 R2 to 2012.
* Excellent skills in design and development of ETL packages using  SSIS for integrating data from heterogeneous sources (Excel, CSV, Flat File and Text File) using multiple transformations available in SSIS toolbox.
* Hands on experience working with Data Marts, Data Warehouses building Facts, Star and SnowFlake dimensional models.
* Experience in creating configuration files to deploy the SSIS packages across all environments.
* Expert in generating parameterized queries, drill through reports and formatted SQL server Reports in SSRS 2005/ 2008/2008 R2 using data from ETL Loads, SSAS Cubes and various heterogeneous data sources.
* Well versed in implementing business logic using SQL Queries, Stored Procedures, Functions, Views, Database tuning and performance techniques.
* Expertise in Database Management Systems including but not limited to Microsoft SQL Server 2012/2008/2005.
* In depth knowledge of designing Entity Relationship and Data Flow Diagram for Business processes.
* Design and implement user interfaces for mobile applications.
* Create and integrate mobile applications with IOS 7 with backend services.
* Troubleshoot and debug mobile application performance with security and data protection measures.
* Monitor and optimize mobile application performance by collaborating with cross-functional teams for daily build and deployment processes.
* Stay up-to-date with the latest build automation test process with the help of QA teams and perform the same day to day build process to get the build success on a daily basis.
* Bitrise is a Continuous Integration and Delivery (CI/CD) Platform as a Service with a main focus on mobile app development with iOS, Android.
* Outstanding communication and interpersonal skills, ability to learn quickly, hardworking, good analytical reasoning and high compliance to new technologies and tools.

# EDUCATION

Master of Computer Applications (MCA) – JNTU, Hyderabad, INDIA

# TECHNICAL SKILLS

Operating Systems : Win 2000/NT/2003/2008/2012/2016 server.

Programming : UNIX, C#, Asp.Net, Visual Basic, SharePoint, XHTML and XML.

Data Modeling : ER-Win 4.0, MS Visio 5.0

BI Tools : MS SQL Business Intelligence, Business Objects.

ETL Tools : Data Transformation Services (DTS), MS SSIS and BODS.

RDBMS : MS SQL SERVER DB,RDS, Teradata, DB2 and Oracle.

Database Tools : SQL Query Analyzer, SQL Enterprise Manager, Management Studio.

Cloud Programming : C, Bash, Python, Jenkins, Bamboo, Maven, Ant.

Cloud Technologies : AWS (EC2, S3, Cloud Watch, RDS, Elastic Cache, IAM), Puppet, Ansible.

Mobile Technologies : App development (React Native, Flutter, iOS, Android).

# PROFESSIONAL EXPERIENCE

**Thomson Reuters Aug’17 –Till date**

**2395 Midway Rd, Carrollton, TX.**

**Role: DevOps Specialist.**

Architecting a diverse IT environment servicing a high traffic website/Trading platform. Scaled and performed capacity planning using AWS, App dynamics. Designed AWS Cloud Formation templates to create custom sized VPC, subnets, NAT to ensure successful deployment of Web applications and database templates,highly skilled Mobile App Developer with 4 years of experience in developing and launching successful applications on both iOS and Android platforms. Proven track record in increasing user engagement, collaborating with cross-functional teams to design and implement new user interfaces. Bitrise has strong expertise in integrating mobile applications with backend services, implementing security measures, and optimizing app performance.

**Responsibilities:**

* Performed Aumentum package deployments on a daily basis as per the request on legacy and AWS servers.
* Deployed the Public Access application on Development, Staging and Production Environments.
* Patched and restored the databases on MS SQL Server for public access applications.
* Created multiple users and assigned access to various groups using IAM.
* Setup AWS infrastructure for Dev, QA, UAT, Prod and DR environments based on the applications.
* Managed Enterprise Database Environments in Physical and Virtual Environments with mixture of SQL SERVER Databases.
* Support Engineering, QA Automation and Performance teams with AWS and application related issues. Troubleshoot application issues and provide fixes in a timely manner.
* Supported application configuration management, deployment, automation, build/release and

Troubleshoot application and maintain infrastructure.

* Supported system administration of application servers, web servers, and database servers,

On-prem and on cloud in AWS.

* Support Jenkins CI/CD, Source Control TFS/GIT.
* Identify, escalate and document production impact issues and confirm successful delivery

of an application.

* Prepared technical documentation for system software applications and configuration setup.
* Worked closely with Custops & Professional Services teams for PA application deployment issues.
* Strong in programming and working with C#, ASP.NET, Java, WebApi, AWS, Ansible, Jenkins, GitHub, Puppet, Perl, Python, PowerShell, Microsoft.NET, SQL Server, and Security/Network.
* The project followed Agile (SAFe) methodology. Was involved in Daily stand-up meetings, Sprint planning and Sprint Retrospective meetings, Pre-demos and Demos.
* Designed and deployed AWS solutions using S3, E2C, RDS, EBS, Elastic Load Balancer, Auto Scaling groups, OpsWorks.
* Using AWS Cloud cost optimization techniques and AWS allowed me to reduce costs for the department and eliminate unwarranted resources
* Developed and supported key pieces of the company's AWS cloud infrastructure.
* Optimized volumes and EC2 instances and created multiple AZ VPC instances.
* Configured S3 versioning and lifecycle policies to backup and archive files in Glacier.
* Provided highly durable and available data by using S3 data store, versioning, lifecycle policies, and creating AMIs for mission critical production servers for backup.
* Utilized Cloud Watch to monitor resources such as EC2, CPU memory, Amazon RDS DB services, DynamoDB tables, EBS volumes; to set alarms for notification or automated actions; and to monitor logs for a better understanding and operation of the system.
* Document system configurations, Instance, OS, and AMI build practices, backup procedures, troubleshooting guides, and keep infrastructure and architecture drawings current with changes.
* Debug existing automation code and test to confirm functionality within AWS/EC2
* Installation of Oracle on Linux and Solaris, creating databases, creating Oracle users etc.
* Bitrise is a Continuous Integration and Delivery (CI/CD) Platform as a Service with a main focus on mobile app development with iOS, Android.
* Bitrise Empower developers through a platform purpose built to help them face them head on. BitriseCI/CD is possible for everyone to build and maintain better applications with iOS, Android, providing the right tools for the job.
* Design and implement user interfaces for mobile applications.
* Create and integrate mobile applications with IOS 7 with backend services.
* Troubleshoot and debug mobile application performance with security and data protection measures.
* Monitor and optimize mobile application performance by collaborating with cross-functional teams for daily build and deployment processes.

**Environment:**Windows, C#, ASP.NET, Java, WebApi, AWS, Ansible, Jenkins, GitHub, Puppet, Perl, Python, PowerShell, Microsoft.NET, HTML5/CSS3/jQuery, Oracle 11g, SQL Server, and Security/Network, Android, IOS.

**Capital One Oct’16 – July’ 17**

**15075 Capital One Dr 2nd FL, Richmond, VA.**

**Role: Sr. DevOps Engineer.**

Architecting a diverse IT environment servicing a high traffic website/Trading platform. Scaled and performed capacity planning using AWS, Splunk and App dynamics. Designed AWS Cloud Formation templates to create custom sized VPC, subnets, NAT to ensure successful deployment of Web applications and database templates.

**Responsibilities:**

* The project followed Agile (SAFe) methodology. Was involved in Daily stand-up meetings, Spring planning meetings, Sprint Retrospective meetings, Pre-demos and Demos
* Designed roles and groups for users and resources using AWS Identity Access Management (IAM) and also managed network security using Security Groups, and IAM.
* Provide highly durable and available data by using S3 data store, versioning, lifecycle policies, and create AMIs for mission critical production servers for backup.
* Managed Virtual servers (Windows) on AWS EC2 using Open-Source Chef Server.
* Designed and deployed AWS solutions using S3, E2C, RDS, EBS, Elastic Load Balancer, Auto Scaling groups, OpsWorks.
* Used Chef to aid with our deployment process, and migrating in-house systems to Amazon Cloud Services. This entailed working with our Ops team for infrastructure needs as well as development of cookbooks and processes evolving from the use of Chef along with creating resources in AWS.
* Using Chef and AWS allowed me to reduce costs for the department and eliminate unwarranted resources
* Developed and supported key pieces of the company's AWS cloud infrastructure.
* Built and managed a large deployment of Ubuntu Linux instances systems with Opscode Chef
* Optimized volumes and EC2 instances and created multiple AZ VPC instances.
* Used IAM to create new accounts, roles and groups.
* Configured Elastic Load Balancers with EC2 Auto-scaling groups.
* Utilized Cloud Watch to monitor resources such as EC2, CPU memory, Amazon RDS DB services, DynamoDB tables, EBS volumes; to set alarms for notification or automated actions; and to monitor logs for a better understanding and operation of the system.
* Document system configurations, Instance, OS, and AMI build practices, backup procedures, troubleshooting guides, and keep infrastructure and architecture drawings current with changes.
* Utilized Amazon Glacier for archiving data.
* Used Chef to configure and manage infrastructure. Written cookbooks to automate the configuration setups.
* Created Chef coding best practices for existing development team.
* Debug existing automation code and test to confirm functionality within AWS/EC2
* Refactor existing Opscode Chef Automation code.
* Test Chef Cookbook Modifications on cloud instances in AWS and using Test Kitchen and Chef Spec.
* Stack: F5, Varnish, HAproxy, Apache/tornado, PHP, Memcached, MySQL.
* Virtualized infrastructure (VMware, Xen) and AWS EC2.
* Storage: Equal logic, Nimble storage, Virident+Fusion IO, Open stack Swift, S3.
* Puppet, Nagios, Postfix, Bind, Kick start, Github Enterprise.

**Environment:**  Tomcat, APACHE 2.x, 3.x, F5 Load Balancers, Web Logic (8/9/10) & Web Sphere 4.0/5.0, NetScape/iplanet Server, MQ Series, Cluster Server 3.5 & 4.1, Sun Cluster 2.x & 3.x, Nagios.

**Bank of America Nov’ 15 – Sep’16**

**Charlotte, NC.**

**Role: DevOps and SQL ServerEngineer**

Bank of America (abbreviated as BoA or BofA) is an American multinational banking and financial services company, the second largest bank holding company in the United States, by assets, and the second largest bank by market capitalization. Involved to add additional data to the Legal - Data Mart from Counsel Link Data Files using SSIS (ETL) and Stored Procedures for reporting needs.In addition, built Stored Procedure processes to match these data elements for the front end Counsel Link and Team Connect applications.

**Responsibilities:**

* Involved in business analysis and technical design sessions with business and technical staff to develop data models, requirements document, and ETL specifications and SSIS Jobs.
* Designed SSIS Packages to transfer data between servers, load data into database, archive data file from different sources using SQL Enterprise Manager/SSMS on SQL Server 2012 environment and deploy the data; schedule the jobs to do these tasks periodically.
* Work on development of Data mart and different SSIS packages to load staging, fact, dimension and metric data into data mart.
* Provided technical support to internal developers and external clients.
* Created Log Files to handle and trouble-shootPackage failure errors.
* Created Script tasks to check for existence of Source files for a specified amount of time.
* Helped design and implement processes for deploying, upgrading, managing, archiving and extracting data for reporting.
* Designed high level ETL architecture for overall data transfer from the source server to the Enterprise Services Warehouse which encompasses server name, database name, accounts, tables and direction of data flow, data dictionary and Metadata using SSIS.
* Administered SQL Server security, SQL server automatic e-mail notification and SQL Server backup strategy and automation.
* Responsible for elevating and automating successful code to production environment.
* Created Data Warehouse Data Model to store atomic level data and summarized data.
* Performed Dimensional Data modeling and created Star Schema and Snowflake Schema data model to meet OLAP needs.
* Configured S3 to host static web content.
* Configured Elastic Load Balancers with EC2 Auto-scaling groups.
* Configured and monitored distributed and multi-platform servers using Chef.
* Defined Chef Server and workstation to manage and configure nodes.
* Developed Chef Cookbooks to manage systems configuration.

**Environment:** SQL Server 2008R2, T-SQL, SQL BI Suite, SSIS, Stored Procedures, Files, C#, Windows Server 2008/2012 and Quality Center, AWS, EC2 and Chef.

**Sprint Feb’11-Oct’15**

**Overland Park, KS.**

Sprint, is an American telecommunications holding company that provides wireless services and is also a major global Internet carrier. Sprint has existing systems for its CDMA. Involved in providing data solutions for EVDO and LTE technologies. Built dimensional model data mart by extracting data from switch and load files, other source systems using SSIS (ETL) process.

**Role**: Sr. DW and BI Consultant(On-site) May’15 – Oct’ 15

Responsibilities:

* Communicating with the Client for capturing the business requirements, consolidating and documenting the same and preparing business requirements documents.
* Coordination with the Offshore team for requirement understanding and analyzing extraction of business rules and getting the deliverable ready without any scheduled deviation and ensuring quality.
* Created Requirement technical documents from the existing SSIS Mappings, used the technical documents for Developing the SSIS jobs.
* Implemented many standards and processes in enterprise data warehouse including ETL Job Monitoring, Code Reviews, Change Control, Run time metadata capture etc.

**Role**: DW and BI Consultant (Off-Shore) Feb’11 – Mar ’15

Responsibilities:

* Understand business requirements, profile data source, design data flows, data quality analysis including the development of logical data models.
* Installed SQL Server Management tools 2008R2 using SQL Server Setup Program, Involved in upgrading from SQL Server 2008 to SQL Server 2008 R2
* Created ETL packages with different data sources (SQL Server, Flat Files, Excel source files, XML files etc) and then loaded the data into destination tables by performing different kinds of transformations using SSIS
* Captivated proper error handling techniques like logging, checkpoints, and event handler etc. to handle errors in the packages.
* Implemented Analysis Services setup, tuning, cube partitioning, dimension design including hierarchical and slowly changing dimensions
* Enhanced the functionality in database and data warehousing concepts (OLAP, OLTP) Cube by creating KPI, Actions and Perspective using SSAS
* Designed user defined hierarchies in SSAS including parent-child hierarchy
* Defined the Referenced Relationships with the measure groups and fact tables
* Used ProClarity for accessing and analyzing cubes and dimensions
* Developed SSRS Reports like drill through reports, drill down reports, linked reports and parameterized reports, Generating ad-hoc reports using MS-Excel, SSRS and Crystal Reports.
* Generated Reports using Global Variables, Expressions and Functions for the reports using SSRS
* Used cascade parameters to generate report from two different data units
* Deployed and uploaded the SSRS reports to SharePoint Server for the end users and involved in enhancements and modifications
* Used SharePoint API and ASP.NET to build custom Web Parts and Tool Parts to implement additional business requirements from and within the SharePoint site
* Created various weekly and monthly reports showing detailed information and created various ad hoc reports using SSRS
* Created Database Maintenance Planner for the Performance of SQL Server, which covers Database Integrity checks, Database Statistics update and Re-indexing
* Created check constraints to maintain data integrity, Configured Replication Server and Coordinating post-implementation events such as testing

Environment: SQL Server 2008R2/2012, T-SQL, SQL BI Suite SSIS, SSAS, SSRS, XML, C#, ASP.NET, SharePoint, Power Pivot, MS Project.