**Venkata Naga Praveen**

**Summary**:

* Over 7+ years of IT experience in Database design, administration and all aspects of Systems Development using Client/Server technologies that includes Requirements gathering, Analysis, Design and Development
* Extensive knowledge in MongoDB concepts and good knowledge in Administration.
* Experience in upgrading and migrating various versions of Mongo database on different platforms.
* Focused on architecting NoSQL databases like Mongo, Cassandra and Cache database.
* Developed enhancements to MongoDB architecture to improve performance and scalability.
* Expert in Oracle database design and administration.
* Expertise in designing build/configure documentation related to Red Hat Enterprise Linux via Spacewalk/Satellite/Kickstart/Puppet/Cobbler/Ansible servers.
* Experienced in Writing UNIX Korn Shell Scripting for job scheduling and sequencing
* Experience in Performance Tuning of SQL and Stored Procedures and Java scripts
* Good expertise in using Database tools like MongoVue,Mongo compass and Toad.
* Extensive experience in writing SQL and PL/SQL scripts to validate the database systems and for backend database testing.
* Configured MongoDB as a service in Linux and Windows environments.
* Performed Pre Migration Assessment, Migration & Post Migration
* Identifying Reports Complexity, Implemented Row level/Column Level/Report Level Security
* Experience in data retrieval methods using Universes, Personal Data files, Stored Procedures, and free hand SQL
* Developed Power BI model used for financial reporting.
* Experience in writing complex DAX functions in Power BI.
* Experience with data transformations utilizing SnowSQL and Python in Snowflake.
* Hands - on experience in bulk loading and unloading data into Snowflake tables using COPY command.
* Familiar with MongoDB clusters, Java scripting to load unstructured data into sharding environment.
* Expertise in web and mobile front - end development using HTML, CSS, JavaScript and frameworks/Libraries such as Bootstrap and AngularJS.
* Worked with CSS pre-processors like LESS and SASS, and used Bower package manager. Expertise in using Grunt and Gulp task managers.
* Good experience in using different kind of data bases like MySQL, Oracle and DynamoDB.
* Source control and Application life-cycle management experience using Git and GitHub.
* Hands-on experience using HTTP servers such as Apache HTTP server.
* Expert in Designing and deploying cubes in SSAS environment using Snowflake and Star Schema Designs for the operational data.
* Experience in integration of various data sources including MySQL, PostgreSQL, Oracle and MS access and noSQL sources like flat files, MongoDB, Dynamodb into staging area.
* Migrated existing batch processing to Lambda based processing on AWS.Web programming experience developing several websites using PHP and MySQL, Worked on design/development of front-end projects, Systems administration experience in Linux Cent OS and MySQL server.
* Experience in trouble shooting /performance tuning.
* Extensively used various design patterns such as MVC (Model-View-Controller), Singleton, MVVM.
* Responsible for authoring of website functionality with JavaScript, HTML, CSS.
* Deployed mapR 15 - node cluster on AWS and integrated mongo DB with it.
* Highly motivated, self-starter with the ability to learn new technologies and methodologies. Target oriented and possess excellent communication and interpersonal skills. Follow best standard programming practices and have the ability to work both independently and in a team.

**TECHNICAL SKILLS:**

**Database Tools :** MongoVue, Robomongo, MongoCheff, Mongodump, Mongorestore, Mongofiles, MMS

**Databases :** Mongo 2.x, 3.0.x, 3.2.x, 4.2, DynamoDB, Oracle 12c/11g/10g/9i/8i, MS Access 2000, MS SQL Server 2019/2017/2016/2014/2012, SSAS

**BI tools :** Power BI

**Web/Application Servers :** Apache Tomcat, JBoss, Web logic

**Testing Tools :** QTP 9.2, Win Runner 8x, Test Director

**O/S :** Windows NT/XP Prof/2003 Server/2000/98/95, UNIX, Solaris, Linux (RedHat 7.0/6.0/5.0)

**Languages :** Java, C, C++, COBOL, VB, SQL, PL/SQL, HTML, XML

**Others :** MS Office - 2003, MS Project

**PROFESSIONAL EXPERIENCE:**

**HSBC, New York City, NY Jan 2021 – Till date**

**Sr. Mongo Database Administrator**

**Responsibilities:**

* Conducting case / system / process study for project planning, scoping, estimation, tracking for MongoDB clusters.
* Built MongoDB multiple version (2.x,3.0.x and 3.2.x/4.2) of cluster.
* Implemented TTL and indexing based on collection of profiling data and EXPLAIN analysis.
* Performed monitoring and capacity planning.
* Responsible in performing multiple upgrades to maintain the database function without errors.
* Experience in handling the service requests with MongoDB Jira for resolving issues.
* Suggested suitable MongoDB Data Modeling techniques for application team.
* Monitoring of Document growth and estimating storage size for large MongoDB clusters depends on data life cycle management.
* Experience in applying security patches and updating Redhat Linux OS version using Red Hat Satellite server
* Adding and removing shards from sharded cluster.
* Familiar with Range based sharding and Hash based sharding.
* Installation of MongoDB Database on Windows and Linux Machines, manage and maintain MongoDB servers across multiple environments.
* Redhat 5/6 Operating System installation and configuration.
* Patch Redhat Linux servers to apply latest updates
* Developed SnowSql scripts to deploy new objects and update changes into Snowflake.
* Involved in planning and administration of data migration and performance tuning to achieve cost efficiency and effectiveness of the system.
* Update Spatial Oracle 12c databases on Windows 2003 servers to Oracle 11g/12c on both Windows 2008R2 servers to Linux servers.
* Created reports in Power BI preview portal utilizing the SSAS Tabular via Analysis connector.
* Experience in analyzing chunk migrations, splitting and balancing across the cluster.
* Defined replication/sharding strategies and migrated Mongo-DB servers to cloud (AWS).
* Highly experienced in Oracle12c, 11g, 10g Automatic Storage Management (ASM) required to fulfill the storage needs and Spatial Database.
* Implemented several DAX functions for various fact calculations for efficient data visualization in Power BI.
* Implement mongo dB master-slave replication across multiple data centers. Setting up mongo dB database and hardware alerts using Nagios.
* Created OLAP cubes using SSAS and created reports from them.
* Experience working with noSQL database like MongoDB and CouchDB.
* Use RedHat Satellite to remotely deploy updates and patch security vulnerabilities.
* Measuring the Index use and dropping the indexes which are not actively used by queries.
* Installation of MongoDB on physical machines, Virtual machines as well as AWS.
* Worked on all types of transformations that are available in Power bi query editor
* Created stored procedures, Views and SQL queries to pull data into power BI model.
* Basic Knowledge in CouchDB which is a document database server, accessible via a RESTful JASON API.
* Redesigned the Views in snowflake to increase the performance.
* Maintaining Sharded cluster availability and security across all the nodes.
* Worked on creating documents in Mongo database.
* Provided 24/7 on call support on Linux Production Servers. Responsible for maintaining security on RedHatLinux.
* Installed and configured OPS manager automation, monitoring and backup agent.
* Implemented better backup solution to backup Mongo Databases.

**Environment:** MongoDB, DynamoDB, Redhat Linux, MMS, OPS manager, mongostat, CouchDB, mongotop, mongofiles, Snowflake, Linux/Unix, LVM Snapshots, Backup scheduler, Dataguard, PyMongo, Power BI, SSAS, Java script.

**PNC Financial Services, Pittsburgh, PA Aug 19 – Dec 20**

**Mongo Database Administrator**

**Responsibilities:**

* Experience in deploying, managing and developing MongoDB clusters on Linux and Windows environment
* Database management for scheduling, tuning, taking backups using on-premise MMS monitoring and backup solution.
* Point in time Backup and recovery in MongoDB using MMS. Data modeling for data from RDBMS to and MongoDB for optimal reads and writes.
* Used Neo4j for graphical based search. Database management for scheduling, tuning, taking backups using on premise MMS monitoring and backup solution.
* Configured RedHat Kickstart for installing multiple production servers.
* Responsible for managing MongoDB environment with high availability, performance and scalability perspectives.
* Worked extensively on Performance tuning of Queries by maintaining Aggregates, Compression, partition, Stored outlines, Statistics.
* Worked on different storage engines in Mongo. Managing Mongo databases using MMS monitoring tool.
* Worked on balancer issues and chunk migration failures.
* Migrated the data from Redshift data warehouse to Snowflake database.
* Created users in mongo database and assigned specific roles to maintain security of Database.
* Performance tuning and stress-testing of Mongo database using Mongo utilities.
* Troubleshooting of different versions of Mongo database systems and cluster configurations to ensure high-availability in various crash scenarios and restoring roll backs to avoid loss of Data.
* Created reports in Power BI preview portal utilizing the SSAS Tabular via Analysis connector.
* Upgraded Mongo systems from 3.0.5 to 3.2. Also involved with creating shards, replica sets, monitoring, and projections for Mongo Systems.
* Maintained existing Power BI reports and dashboards and made changes onto the same as per new and changing business requirements.
* Management of RedHat Linux user accounts, groups, directories and file permissions.
* Build dimensional modelling, data vault architecture on Snowflake.
* Designed complex SSAS solutions using multiple dimensions, perspectives, hierarchies, measures groups and KPIs to analyze performance of Strategic Business Units as well as corporate centers.
* Explain plan of mongodb java scripts and suggested tuning of queries when and where it is required.
* Developed JavaScript’s to monitor health of Mongo databases and perform ad-hoc backups using Mongodump/mongoexport and Mongorestore/mongoimport.
* Created KPIs utilizing calculated function and quick table function in tableau and DAX in Power BI.
* Optimized report data sets to reduce the report generation and rendering time in Power BI environment.
* Administered multiple environments, automating backups and checks, restore, validation/integrity checks, growth modeling and predictions, and system expansion; assisted with upgrade efforts with MongoDB
* Worked on MongoDB database concepts such as locking, transactions, indexes, Sharding, replication, schema design. Created multiple databases with sharded collections and choosing shard key based on the requirements. Experience in managing MongoDB environment from availability, performance and scalability perspectives.
* Experience managing software in Red Hat and CentOS platforms Linux and All Windows Platforms
* Developed, tested, and deployed Business feature set in Node.js with Express and MongoDB backend, incorporating APIs.
* Worked on Mongodb database design and indexing techniques.
* Good knowledge on MongoDB writes concern majority. Implemented read preferences in MongoDB replica set. Configured hidden members in replicaset.

**Environment:** MongoDB 3.2, DynamoDB, Cassandra, CouchDB, Redhat Linux, Snowflake, MMS, Linux/Unix, LVM Snapshots, Backup Scheduler, Data guard, Sharding, Replication, Power BI, SSAS, Python, Shell scripting, Perl, PyMongo, JavaScript.

**Discover, Chicago, IL Aug 17 – Jul 19**

**Mongo Database Administrator**

**Responsibilities:**

* Extensive experience in deploying, managing and developing MongoDB clusters. Creation, configuration and monitoring Shards sets.
* Analysis of the data to be shared, choosing a shard Key to distribute data evenly.
* Architecture and Capacity planning for MongoDB/ Cassandra clusters. Implementing on-premise MMS monitoring and backup solution.
* Used MongoDB third party tools (ROBO MONGO, MONGOOWL, MONGOVUE) and mongo-built in binaries to monitor and analyze the performance of MONGODB.
* Installation of MongoDB on physical machines, Virtual machines as well as AWS. Backup & Recovery, Database optimization and Security maintenance.
* Worked on MongoDB database concepts such as locking, transactions, indexes, Sharding, replication, schema design.
* Experience in managing MongoDB environment from availability, performance and scalability perspectives.
* Build the Logical and Physical data model for snowflake as per the changes required
* Configuring high availability using geographical MongoDB replica sets across multiple data centers.
* Migrated Mongo database systems from No-SSL authentication to SSL authentication using certificates.
* Migrated Mongo database from MMAPV1 storage engine to WiredTiger storage engine.
* Managing Mongo databases using MMS monitoring tool.
* Designed Power BI data visualization utilizing cross tabs, maps, scatter plots, pie, bar and density charts.
* Utilized power BI desktop to design real time dashboards and scorecards for analytical decision.
* Deployed reports and Power BI dashboards on the reports/SharePoint server; scheduled deployments with subscriptions.
* Published reports and dashboards designed in Power BI utilizing Power BI services and shared it across through Microsoft Office 365.
* Upgraded Mongo systems to 2.2.3 and soon 2.4. Also involved with creating shards, replica sets, monitoring, and projections for Mongo Systems.
* Developed Ruby/Python scripts to monitor health of Mongo databases and perform ad-hoc backups using Mongodump and Mongorestore.
* Implemented Key Performance Indicator Objects, Actions, Hierarchies and Attribute Relationships for added functionality and better performance of SSAS Warehouse.
* Worked with capped collections to wipe out aged data based on requirements.
* Administered multiple environments (up to 25TB), automating backups and checks, restore, validation/integrity checks, growth modeling and predictions, and system expansion; assisted with upgrade efforts with MongoDB.
* Worked on creating various types of indexes on different collections to get good performance in Mongo database.
* Managing SQL Server clusters and Migration process from different data sources to SQL Server and Performance tuning of Database and SQL statements.
* Familiar with MongoDB write concern to avoid loss of data during system failures.
* Implemented read preferences in MongoDB replica set.
* Configured delayed secondaries to avoid human failures in coding and development.
* Strong experience in analyzing chunk migrations, splitting and balancing across the cluster.
* Skilled in troubleshooting with good organizational and interpersonal skills.

**Environment:** MongoDB, DynamoDB, Cassandra, Ruby, MMS, Puppet, Linux/Unix, LVM Snapshots, Backup Scheduler, Data guard, Sharding, Replication, Power BI, SSAS, Python, Shell scripting, Perl, PyMongo, JavaScript.

**Allstate, IL Oct 15 - Jul 17**

**MongoDB Developer/ Administrator**

**Responsibilities:**

* Worked on the enhancement of the business logic with J2EE with struts framework.
* Involved in analyzing the mongo data and document structures.
* Developed Python scripts to monitor health of Mongo databases and perform ad-hoc backups using Mongo dump and Mongo restore.
* Architecture and Capacity planning for MongoDB/ Cassandra clusters. Implemented scripts for mongo DB import, export, dump and restore.
* Implementing on premise MMS monitoring and backup solution.
* Used MongoDB third party tools (ROBO MONGO, MONGOOWL, MONGOVUE) and mongo-built in binaries to monitor and analyze the performance of MONGODB.
* Installation of MongoDB on physical machines, Virtual machines as well as AWS.
* Backup & Recovery, Database optimization and Security maintenance.
* Worked on MongoDB database concepts such as locking, transactions, indexes, Sharding, replication, schema design.
* Configuring high availability using geographical MongoDB replica sets across multiple data centers.
* Migrated Mongo database systems from No-SSL authentication to SSL authentication using certificates.
* Migrated Mongo database from MMAPV1 storage engine to WiredTiger storage engine.
* Managing Mongo databases using MMS monitoring tool.
* Upgraded Mongo systems and involved with creating shards, replica sets, monitoring, and projections for Mongo Systems.
* Worked with capped collections to wipe out aged data based on requirements.
* Administered multiple environments (up to 25TB), automating backups and checks, restore, validation/integrity checks, growth modeling and predictions, and system expansion; assisted with upgrade efforts with MongoDB
* Worked on creating various types of indexes on different collections to get good performance in Mongo database.
* Familiar with MongoDB write concern to avoid loss of data during system failures.
* Implemented read preferences in MongoDB replica set.
* Configured delayed secondary's to avoid human failures in coding and development.
* Strong experience in analyzing chunk migrations, splitting and balancing across the cluster.
* Worked on pre-splitting mechanism using shard keys to distribute data across shards.
* Skilled in troubleshooting with good organizational and interpersonal skills.

**Environment:**MongoDB, Cassandra, Ruby, MMS, Puppet, Linux/Unix, LVM Snapshots, Backup Scheduler, Data guard, Sharding, Replication, Python, Shell scripting, Perl, Py Mongo, JavaScript, web logic server, eclipse, struts, Soap and Eclipse.