

Thirthesh H V

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EXPERIENCE SUMMARY

- Over 10+ years in the Database ADesign and development for **MS-SQL Server, Postgresql and Oracle.**
- Good technical experience in **RDBMS** for developing web and mobile applications using **MS-Sqlserver, Postgresql, Oracle Database.**
- Database **install, patching, high-availability**, interaction with network and system administrators.
- Good Experience in **Spatial and NonSpatial Data Analysis using Sql/PLSql, Postgis, QGIS, ArcGIS.**
- Good Experience in **T-SQL** for Sqlserver, Postgresql
- Good Experience in **Schema Design, Data Transformation/Load, Data Processing, Writing Complex Quires, Stored Procedures, Functions, Views, Sequences, Triggers and Job Schedules** as per business requirements.
- Godd Experience to Cteate **Sequence, Indexing, Query-Optimization and Table-Partitioning.**
- Good Experience in **Database Backup and Restore.**
- Create **DB-Link** to connect Different Tables from different Servers.
- Identify **Slwo Running Queries** and make them **optimize** as Quick execute.
- Work closely with the **software development team to identify the root cause of defects.**
- Good in interpersonal skills and hands on experience in client interactions for business analysis, requirements gathering and technical discussions.
- Practiced and worked on Basic Java And Python progams.

ACADEMICS & CERTIFICATIONS

- **Master of Computer Application (MCA)**
from Bapuji Institute OF Engineering and Technology, Davangere in 2009.
- **Bachelor of Science (B.Sc)**
from Sahyadri Science College, Shivamogga in 2006.
- **Pre University College (XII)**
from AST PU College, Malladihalli. (Chitradurga-Dist)

WORK HISTORY

I am working with Karnataka State Remote Sensing Applications Centre from past 12 + Years in Karnataka State Remote Sensing Applications Centre (KSRSAC). This is the GIS Based Nodal Agency under Department of Personnel and Administrative Reforms (e-Governance), Government of Karnataka for implementation of Remote Sensing by providing GIS based services using web and mobile applications and I served my service in Database Team as the following positions.

- **Sr. Database Analyst : From Sep 2018 – Till date**
KSRSAC - GKVK Campus vidyaryanapura Bangalore, Karnataka
- **Database Analyst : From Nov 2014 to Aug 2018**
KSRSAC – GKVK Campus vidyaryanapura Bangalore, Karnataka
- **Project Scientist : From Feb 2010 to Oct 2014**

TECHNICAL SUMMARY

- **Database (RDBMS)** : MS-SQLServer (12/14), PostgreSQL (15) and Oracle11g.
- **Operating System** : Windows.
- **GIS-Tools** : ArcGIS, QGIS, PostGIS, Sqlserver-Spatial.
- **IDE** : Eclipse, Pycharm.

WORK EXPERIENCE

1. Karnataka State Forest Fire Alerts (using SQLServer)

This is the official web portal for **Karnataka Forest department's Geospatial Information**. This portal is primarily for use of departmental staff and the forest workforce to get remote sensing and **GIS based data** inputs related to forest resources, assets, fire events, weather information, observed changes etc. and also to share the field events back to the command and control Centre. The remote sensing data and GIS data generated from Karnataka State Remote Sensing Applications Center (KSRSAC and the Karnataka-Geographic Information System (K-GIS) portal framework is used for this portal. The forest fire alerts generated from National Remote Sensing Center of ISRO, The weather information from Karnataka State Natural Disaster Monitoring Center (KSNDMC) are integrated and processed together for deriving value added services on the K-GIS framework

2. Agriculture DSS Dashboard (using Postgresql)

This application is mainly designed for **GIS Based Data for Planning, Decision Support and Governance for Karnataka State Agriculture Department** for Activities like Water Resource analysis, Crop Area Estimation for Major crops and Crop loss, beneficiaries for Crop loss, Soil Suitability for Crop yield, land resources like soil-site characteristics, water, weather, climate and Nearby Assets like APMC Markets and RaithaSamparkakendra, monitoring and managing of beneficiaries under different Government Schemes.

3. KIADB GIS-portal (using Postgresql)

KIADB is a Web based **GIS-Portal for Identify, analysis and managing of Industrial Area** for Karnataka State. This is mainly designed for identify the industrial area using some GIS-Validations and distribute the plots to the public/entrepreneur through web portal with basic GIS functionalities like View and Query the available information like vacant, allotted, litigation or mixed combination like litigation-allotted. After some multi-step verification the plot will changing its Status either rejected or Accepted plots. And generating automated reports with detailed GIS Validation Information along with owner Data to build an industry for given area.

4. Karnataka At Glance (using SQLServer)

This application is mainly designed for Abstract visualization of **GIS with MIS Based Data for Manage all the Statistics and Transactions in all the Departments for Karnataka state government**. In this application we are developing automated functionalities like cumulative calculations, Percentages, Ratio and, Indicators with respect to Raw Data with specific Year for all the Departmental Statistics like population with area, Rain fall,

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Industries, Education, Transport, Health, Rural Development, Land use and Land Cover, Water Resources etc.

5. **Crime Analysis and Road Safety** (Using SQLServer)

This is the official web portal for **Karnataka State Police Department**. This mobile and web portal is primarily for use of departmental staff as well as Public to get remote sensing with **GIS based data** related to Crime(both Traffic and Civil).

Using this App easily we are Identify the Most frequently Accident Zone and analyse the Spot and Find the Cause with Solutions. The Most Imported thing in this application is to Identify the Emergency Services from the Accident Spot like Hospital, Ambulance, transport Facility, Schools and etc.

RESPONSIBILITIES:

As a **Sr. Database Analyst** i am working on above live Projects and play the following roles and responsibilities.

- Understanding client requirements, designing and developing the Database.
- Collect the Data from Different Data Sources, Store Collected Data into database and maintain with efficient Skills.
- Write SQL /PLSql Scripts with Spatial Functionalities to retrieve, update and manipulate data with Transaction Management in a database.
- Create and Validate and Store Spatial Data According to the Application Requirements.
- Creating and optimizing indexes to improve database performance.
- Create Stored Procedures, Triggers, Views, Constraints and Spatial Indexes to Better Performance.
- Debug and troubleshoot database issues, such as data inconsistencies.
- Responsible for identifying areas for improvement in the database architecture and implementing changes to improve performance, security, and scalability.
- Modify databases according to requests and perform tests.
- Perform data back-up and archival on regular basis.
- Create Users and assign Roles according the Work on Database.
- Create Automated Job Schedule to Perform a Task in Timely Fashion.
- Develops and maintains the documentation and standards.

Thanks and Regards,

Thirthesh H V