

KRANTI SAWANT

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Summary

Experienced **Database Administrator** and **Developer** with a strong foundation in designing, implementing, and maintaining both on-premises and cloud-based database systems. Proficient in database architecture, optimization, and performance tuning, with hands-on expertise in **PostgreSQL**, **MySQL**, **MSSQL**, **MongoDB**, **Redis**, **Google Cloud SQL**, **AWS RDS**, and **GIS platforms** (PostGIS, QGIS). Skilled in developing efficient data solutions, ensuring high availability, enhancing database security, and managing geospatial data. Adept at leveraging technical expertise and problem-solving skills to deliver scalable, reliable, and high-performance data management solutions for diverse organizations. Seeking to contribute to a forward-thinking team focused on achieving robust, innovative data solutions with a focus on both traditional and spatial data management.

Technical Skills

- **Databases:** MySQL, PostgreSQL, MSSQL, MongoDB, Redis
 - **GIS Platforms:** PostGIS, QGIS
 - **Cloud Platforms:** AWS (RDS, EC2, S3), GCP (Cloud SQL)
 - **Replication & HA:** Master-Slave, Read Replica, Backup/Restore, High Availability Design
 - **Monitoring Tools:** CloudWatch, GCP Monitoring, OS/DB-level custom scripts
 - **Security:** PCI encryption, auditing, user roles, access controls, Data Masking, HAProxy, ProxySQL
 - **Automation & Scripting:** Bash, Shell, Python, PowerShell, Terraform
 - **DevOps & CI/CD:** Git, Bitbucket, Flyway, CI/CD pipeline integration, Apache NIFI, Talend Studio
 - **Others:** Looker Studio, Tableau, SSIS, BigQuery
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Experience

Database Engineer

Freelance • Remote (Part-time)

07/2024 - 12/2024

- Design, develop, and manage **PostGIS databases** for storing and processing geospatial data.
- Implement spatial data structures, including tables, indices, and geometry types in **PostGIS**, to support efficient geospatial queries and analyses.
- Develop SQL queries, functions, and custom tools to automate data management and processing tasks using **PostGIS**.
- Optimize **PostGIS** database performance for large geospatial datasets, ensuring fast and accurate data retrieval.
- Leverage **QGIS** for data visualization, analysis, and reporting, integrating PostGIS layers seamlessly into QGIS projects.
- Create QGIS-based workflows for spatial analysis, map production, and reporting, ensuring that PostGIS data is effectively utilized in these processes.
- Collaborate with the GIS team to ensure smooth integration of **PostGIS** with **QGIS**, as well as other software or systems used for geospatial data handling.
- Provide expert advice on best practices for PostGIS and QGIS integration, spatial data management, and optimization techniques.
- Troubleshoot, debug, and resolve issues related to **PostGIS** databases and QGIS workflows, ensuring that databases are functioning optimally.
- Implement data validation, quality control, and documentation practices to ensure the integrity and accuracy of geospatial data.

- Create clear, comprehensive documentation for the development process, database structure, and QGIS-based workflows.
- Keep up to date with the latest developments in **PostGIS**, **QGIS**, and geospatial technologies

Database Administrator Lead

Badabusiness Pvt. Ltd. • New Delhi, India (Full-time Hybrid)

03/2023 - 02/2024

- Managed and maintained cloud-based database systems on Google Cloud SQL.
- Designed and implemented database schemas, tables, and indexes to optimize query performance.
- Conducted regular database monitoring, tuning, and troubleshooting to ensure high availability and reliability.
- Collaborated with development teams to optimize SQL queries and improve application performance.
- Implemented backup and recovery strategies to ensure data integrity and disaster recovery.
- Implement data replication and synchronization mechanisms
- Optimized database performance by analyzing query execution plans, identifying bottlenecks, and applying indexing strategies.
- Conducted capacity planning and scaling activities to accommodate growing data workloads.
- Worked on database administration tasks such as database installation, upgrade the database, daily backups, migration of databases, purging of data by retention period, tuning the server configuring parameters, query tuning, limiting the user privileges.
- Provides database development support to the product developers.

Database Development Lead

People10 Technologies Pvt. Ltd. • Bangalore (Full-time Consultant Remote)

04/2021 - 02/2023

- Responsible for developing SQL code review to ensure queries are optimized and tuned to perform efficiently prior to production release.
- Responsible for in the creation of development, staging, and production database instances, and the migration from one DB environment to another.
- Responsible for developing SQL code review to ensure queries are optimized and tuned to perform efficiently prior to production release.
- Responsible for regular backups and recovery of databases.
- Responsible for Query tuning and preventative maintenance.
- Responsible for the monitoring and uptime of all production databases.
- Review production updates to schema and data.
- Monitor long running transactions and optimize query executions with index tuning and declarative programming techniques.
- Planned for database growth (capacity planning and scalability).
- Performed database development and implementation activities.
- Configured, tuned and maintained database servers.
- Ensured 24x7 database availability, reliability and security while in a production environment

Database Administrator

Tallman Technologies Ltd. • Dunstable, UK (Full-time Consultant Remote)

03/2019 - 03/2021

- Serving as a DBA in all facets of database design, implementation, deployment, administration and maintenance.
- Working closely with the Engineering / Development teams to fine-tune database operations and queries.
- Supporting the production, staging and development environments.
- Designing and implementing databases using industry standard methodologies and best practices.
- Managing disruption free migrations and system shutdowns.
- Backup, restore and recovery operations.
- Planning and performing upgrades.
- Documenting services and creating Jira Confluence page.
- Performing database security operations.
- Monitoring database services, resolving issues and identifying and initiating quality improvement measures.
- Performance tuning and query optimization.
- Any reasonable duties requested.

Database Developer

Vobium Technologies Pvt. Ltd. • Mumbai, India (Full-time Onsite)

10/2016 - 02/2019

- Responsible for developing, testing, implementing and maintaining database systems.
- Taking ownership of data related problems.
- Assisting with database design and data model decisions.
- Developed the Stored Procedures, Triggers, Functions, Views.
- Carrying out database tuning activities to ensure optimal performance.
- Developing and building systems for end users.
- Develop and maintain ETL processes.
- Monitor and optimize database performance.
- Analyze database performance and implement performance tuning
- Develop and implement backup and recovery strategies
- Troubleshoot data integrity issues

Data Analyst

Lumina Datamatics Ltd. • Mumbai, India (Full-time Onsite)

06/2015 - 08/2016

- Collecting, collating and carrying out complex data analysis. Also involved in reporting
- statistical findings to work colleagues and senior managers.
- Data Gathering – data extraction from various e-commerce site and uploading data in
- databases.
- Data Cleaning – rolled out instructions for cleaning of data.
- Data Analysis – Extensive data cleansing, processing and analysis, data validation,
- conditional formatting, and graph and chart manipulation.
- Writing MYSQL scripts to manipulate data for data loads and extracts.
- Data analysing and creating data reports & monitoring all data for accuracy.
- Designing, developing and implementing new functionality.
- Development and management of database system and running complex and high volume data

Database Developer Intern

Digital Alfa Pvt. Ltd. • Mumbai, India (Internship Onsite)

01/2015 - 06/2015

- Responsible for developing and testing database functionality of the website.
- Writing the MYSQL queries.
- Test the website and identify any technical problems.
- Upload the related files onto a server.
- Back up files from web sites to local directories for instant recovery in case of problems.
- Developing database structure layout.
- Creating relation between tables.

Education

Bachelor's of Science in Information Technology

KES Shroff College, affiliated by University of Mumbai • Mumbai, India

11/2013