Keshav Miglani
Sr. Database Engineer at RibbonComm

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Summary

- Highly experienced, passionate, and goal-oriented database engineer with **6+ years** of experience.
- Optimized **SQL queries, PL/SQL procedures**, and **indexing** strategies to enhance database efficiency.
- Automated database schema updates and rollbacks by integrating PostgreSQL/Oracle into **CI/CD pipelines (Bitbucket/Jira).** Implemented real-time monitoring using **Python/C++.**
- End-to-end **SDLC** experience—from **design** (tables, views, triggers) to **deployment** and **maintenance**—ensuring robust, scalable database solutions.
- Managed large-scale databases (>1.4 TB) across **PostgreSQL**, **Cassandra**, and **Oracle**. Skilled in replication, backup/recovery, and disaster recovery planning.
- Delivered scalable, secure database architectures and solutions for Fortune 500 companies in **banking, insurance, and telecommunication**.

Technical Skills

Databases & Cloud
- **RDBMS**: Oracle, PostgreSQL, Microsoft SQL Server, Oracle EBS Finance modules
- **Cloud/VM**: OpenStack, AWS (EC2/RDS), VNF Deployment
- **High Availability**: Oracle RAC, ASM, Data Guard, PostgreSQL Replication
- **Tools**: TOAD, Oracle SQL Developer, AWR Reports, PL/SQL Developer

Programming & Scripting
- Languages: Python, PL/SQL, T-SQL, Java
- ML/Data Science: Regression, Classification, Clustering

Education

Aug 2021 -May 2023	**Master of Science: Computer and Information Science** University of Colorado Denver - Denver, Colorado, USA
Sep 2010 -Dec 2014	**Bachelor of Engineering: Computer Science & Engineering** *Maharishi Markandeshwar University - Ambala, Haryana, India*

Work History

Database Engineer   Dec 2023-Dec 2024
Ribbon Communication, Lowell, Massachusetts, USA (Hybrid)
- Led the migration of critical policy/routing data from **Oracle 19C to PostgreSQL 15** using EDB tools, reducing licensing costs by 30% while maintaining 99.9% uptime for Ribbon's PSX Software platform.
- Deployed and managed **high availability PostgreSQL clusters on OpenStack**, ensuring seamless scalability for RAMP's centralized management platform.
- Designed real-time monitoring solutions (e.g., custom Python/C++ scripts) to track database health on RHEL 8, reducing incident resolution time by 25%.
- Worked with **DevOps teams to integrate databases into CI/CD pipelines (Bitbucket/Jira)**, enabling automated schema updates and rollbacks.

Research Assistant   June 2022-Aug 2022
ARADISS, Denver, Colorado, USA
- Worked on two adaptive real time motor and drone dataset to implement the procedure
- for injecting, detecting, verifying, and identifying **anomalies**.
- Applied different data preprocessing techniques **(handling missing values)** to clean the dataset.
- Used **pearson correlation** to identify the relationship between variables.

- Applied **multiple linear regression algorithm** to calculate the **standardized regression coefficient (SRC)** values between variables.

PL/SQL Developer   Jan 2020-Aug 2021
Monocept Consulting Pvt Ltd, Gurugram, Haryana, India
- Involved in design and development of strong back-end programming using **SQL, PL/SQL, stored procedures, functions, ref cursors, constraints, triggers, indexes-B-tree index, bitmap index, views, inline views, materialized views, database links**.
- Developed stored procedures and functions along with Oracle Scheduler in **Oracle 11g and 12C** as per requirement.
- Optimized the **Oracle PL/SQL queries by performance tuning**.

Database Developer   Jul 2019-Nov 2019
National Takaful Insurance Company, Safat, Kuwait City, Kuwait
- Created scripts to create new tables, views, queries for new enhancement in the application using TOAD. Created indexes on the tables for faster retrieval of the data to enhance database performance.
- Handled errors using **exception handling for the ease of debugging** and displaying the error messages in the application.
- Used **Pragma autonomous Transaction** to develop an error log procedure to store all logs in a table for debugging purposes.
- Having Experience working on **PostgreSQL environment and handling >1.4 TB databases**.
- Experience in Importing Data from various sources to the **cassandra cluster using python**.

Database Developer   Dec 2018-May 2019
Linktag Global Service Pvt Ltd, Pune, Maharashtra, India
- Creation of database objects like tables, views, synonyms, materialized views, stored
- procedures, packages using Oracle tools like PL/SQL developer.
- Lead the development and optimization of Oracle EBS Finance modules, including General Ledger (GL), Accounts Payable (AP), and Accounts Receivable (AR), ensuring seamless integration with third-party systems.

Software Associate – Database Team   Apr 2016-Oct 2018
3I-Infotech Ltd, Chennai, Tamil Nadu, India
- Involved in all phases of the SDLC (Software Development Life Cycle) from analysis, design, development, testing, implementation and maintenance with timely delivery against aggressive deadlines.
- Expertise in client-server java application development using oracle 11g/10g, PL/SQL, PostgreSQL 9.0/9.1 and TOAD.
- Proficient in using SQL Data Definition Language (DDL) commands to create and modify database objects such as tables, views, indexes, and constraints, ensuring data integrity and optimal performance.

Academic Projects

Integrating ChatGPT and Whisper API with Voice Recognition for an AI Assistant
- Successfully integrated OpenAI's ChatGPT, Whisper AI, and Speech Recognition modules to create an AI assistant capable of both text and voice interactions.
- Developed a voice recognition system using the Speech Recognition library, allowing users to provide voice inputs for queries and interactions with the AI assistant.

Development and Analysis of AutoGPT-Inspired Natural Language Processing Models
- Leveraged the capabilities of ChatGPT to process and generate human-like responses to user queries, making the AI assistant conversational and intelligent.
- Developed a dynamic user prompt system that adapts to user choices, whether they prefer voice-based or text-based interactions.