

Professional Summary

Results-driven Senior Database Administrator with over 8 years of experience designing, deploying, tuning, and securing enterprise-scale database systems. Expert in PostgreSQL, Oracle, and MySQL engines with a proven track record of optimizing query performance and orchestrating zero-downtime multi-terabyte migrations. Skilled in implementing high-availability clusters, point-in-time recovery, and infrastructure-as-code automation within cloud and hybrid environments.

Technical Skills

Database Engines:	PostgreSQL (12–16), Oracle Database (12c–19c), MySQL, Vertex Aurora, Redis
Performance Tuning:	Query Optimization, Indexing Strategies, Execution Plan Analysis (EXPLAIN/ANALYZE), Memory Tuning, PgBouncer
HA & Disaster Recovery:	Physical/Logical Replication, Oracle Data Guard, Point-in-Time Recovery (PITR), pg_dump/pg_restore, Barman
Cloud & Infrastructure:	AWS (RDS, EC2, IAM, Route 53), Terraform (IaC), Docker, Linux Shell Scripting (Bash), Python
Monitoring & Operations:	Prometheus, Grafana, Datadog, pg_stat_statements, Enterprise Manager, Git, CI/CD

Professional Experience

Senior Database Administrator Oct 2022 – Present
Nexa Infrastructure Solutions Austin, TX

- Architected and deployed a multi-node PostgreSQL 15 cluster using Patroni and pgBackRest, achieving 99.99% uptime.
- Spearheaded a 4.5 TB migration from a legacy Oracle database to AWS Aurora PostgreSQL, minimizing downtime to under 12 minutes.
- Conducted diagnostics via query profiling and index tuning, reducing peak CPU usage by 35% and latency by 150ms.
- Provisioned database infrastructure and automated user access management policies using Terraform and Ansible.

Database Administrator Mar 2020 – Sep 2022
Synapse Systems Dallas, TX

- Administered 40+ production PostgreSQL and MySQL database instances on-premises and in AWS RDS.
- Designed and implemented robust Point-in-Time Recovery (PITR) backup strategies, reducing recovery point objective (RPO) to 5 minutes.
- Automated maintenance routines (vacuuming, reindexing, and partitioning) via Python, reducing fragmentation by 25%.
- Diagnosed and resolved transaction deadlocks, connection spikes, and memory leaks in high-concurrency environments.

Junior Database Engineer Jun 2018 – Feb 2020
Vertex Tech Group Houston, TX

- Supported staging database migrations and verified restorable integrity for daily logical database backups.
- Resolved basic database access requests, updated database privileges, and documented data schemas.

Selected Projects

Zero-Downtime Database Migration (Meridian Platform) AWS Aurora & PostgreSQL
Led migration of the high-throughput Meridian transactional database to AWS Aurora, executing cutover with under 10 seconds of interruption.

Automated Performance Diagnostics (Apex Core) Python & pg_stat_statements
Created a CLI tool to identify query performance degradation and index bloat, integrated directly into the deployment CI/CD pipeline.

Education & Certifications

Education

B.S. in Computer Science
Meridian University 2014 – 2018
Focus on Database Management Systems & Algorithms

Certifications

- AWS Certified Database – Specialty
- Oracle Database Administration Professional (OCP)
- PostgreSQL Certified Associate Administrator