Nathan Rodriguez

Database Administrator

CONTACT INFO

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- Experienced Database Administrator with 8+ years managing enterprise-level database systems across Oracle, PostgreSQL, and SQL Server environments
- Proven track record of optimizing database performance, reducing query response times by up to 85% through strategic indexing and query tuning
- Expert in database migration and cloud transformation, successfully migrated 12TB of critical business data to AWS RDS with zero downtime
- Strong background in database security implementation, ensuring GDPR and SOX compliance across multi-terabyte production systems
- Skilled in automation and scripting using Python, PowerShell, and Bash to streamline database maintenance and monitoring processes
- Excellent crisis management abilities with experience maintaining 99.97% uptime across 25+ production databases serving 10,000+ concurrent users

TECHNICAL SKILLS

Database Systems
Oracle 19c (Expert), PostgreSQL 14 (Advanced), SQL Server 2019 (Advanced), MongoDB 5.0 (Intermediate), AWS RDS, Azure SQL Database, MySQL 8.0

Query Languages
SQL, PL/SQL, T-SQL, PostgreSQL PL/pgSQL, NoSQL query languages, MDX

Performance & Optimization
Query optimization, Index tuning, Execution plan analysis, AWR reports, Database partitioning, Query rewriting

Automation & Scripting
Python for database automation, PowerShell, Bash scripting, Ansible, Jenkins CI/CD, Terraform

Security & Compliance
Data encryption (TDE), Role-based access control, Database auditing, GDPR compliance, SOX compliance, HIPAA standards

Cloud & Infrastructure
AWS (RDS, Aurora, DynamoDB), Microsoft Azure SQL, Database clustering, Replication, Disaster recovery planning

PROFESSIONAL EXPERIENCE

TechFlow Solutions

MARCH 2020 - PRESENT

Senior Database Administrator

- Manage 25+ production databases totaling 15TB across Oracle 19c, PostgreSQL 14, and SQL Server 2019 environments, maintaining 99.97% uptime
- Led cloud migration initiative moving legacy Oracle systems to AWS RDS Aurora, reducing infrastructure costs by 42% while improving query performance by 3x
- Optimized critical customer-facing queries reducing average response time from 12 seconds to 1.8 seconds, directly improving user experience for 50,000+ daily active users
- Implemented automated backup and recovery strategy using Python scripts and AWS Lambda, reducing Recovery Time Objective (RTO) from 6 hours to 30 minutes
- Designed and executed disaster recovery procedures tested quarterly, ensuring business continuity compliance and zero data loss during planned failover tests

- Collaborated with development teams to establish database coding standards and query review processes, reducing production incidents by 60%

DataCorp Industries

Database Administrator

- Administered 15+ SQL Server 2016/2017 databases supporting financial reporting systems with strict SOX compliance requirements
- Reduced database storage costs by 35% through implementation of data compression and archiving strategies for historical transaction data
- Created comprehensive monitoring solution using PowerShell and SQL Server Agent jobs, proactively identifying performance bottlenecks before user impact
- Managed database security implementation including Transparent Data Encryption (TDE) and Always Encrypted features for PCI DSS compliance
- Trained junior DBA team of 3 members on advanced T-SQL optimization techniques and established mentoring program reducing onboarding time by 40%
- Executed major version upgrades from SQL Server 2012 to 2017 across production environment with zero unplanned downtime

Regional Healthcare Systems

AUGUST 2015 - MAY 2017

Junior Database Administrator

- Supported Oracle 12c and MySQL 5.7 databases containing sensitive patient data requiring HIPAA compliance and 24/7 availability
- Implemented database monitoring using Oracle Enterprise Manager, reducing mean time to detection (MTTD) for critical issues from 45 minutes to 8 minutes
- Performed regular database maintenance including index rebuilds, statistics updates, and space management for 8TB of clinical data
- Assisted in development of backup and recovery procedures, achieving RPO of 15 minutes and RTO of 2 hours for critical patient systems
- Collaborated with application teams to optimize Electronic Health Record (EHR) system queries, improving patient record retrieval speed by 65%

CERTIFICATIONS

Oracle Certified Professional (OCP) - Oracle Database 19c Administrator

SEPTEMBER 2022

Oracle

Microsoft Certified: Azure Database Administrator Associate

MARCH 2023

Microsoft

AWS Certified Database - Specialty

JANUARY 2023

Amazon Web Services

PostgreSQL 14 Associate Certification

NOVEMBER 2022

PostgreSQL

EDUCATION

University of Texas at Austin

MAY 2015

Bachelor of Science in Computer Science

Relevant Coursework: Database Management Systems, Data Structures, Distributed Systems, SQL Programming, Database Design Theory

GPA: 3.6/4.0

AWARDS AND PUBLICATIONS

Database Excellence Award - TechFlow Solutions Annual Awards 2023
2023

Recognized for leading cloud migration project that reduced operational costs by 42% while achieving zero-downtime transition

IT Innovation Award - DataCorp Industries 2019
2019

Awarded for implementing automated monitoring solution that prevented 15+ potential production outages

"Optimizing PostgreSQL for High-Volume OLTP Workloads" - Database Weekly
APRIL 2023

8,500+ views, featured in PostgreSQL community newsletter

"Zero-Downtime Database Migration Strategies" - Internal Technical Blog
JANUARY 2023

Adopted as standard procedure across 3 development teams