Nikhil Talagana

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About Me

Experienced Database Administrator and Cloud Engineer with hands-on expertise in AWS, PostgreSQL, Oracle, and Python automation. Specialized in building scalable cloud workflows, automating complex DBA operations, and developing AI-driven solutions for intelligent monitoring, validation, and decision support.

Education

Bachelor of Technology (EEE)   2019-203
University College of Engineering Narasaraopet, JNTUK.   AP, India
CGPA: 6.68/10

Intermediate (MPC)   2017-2019
Narayana Junior College   AP, India
CGPA: 9.32/10

SSC (X)   2016-2017
Z. P High School
CGPA: 8.3/10

Skills

Programming Languages	:	Java
Operating System	:	Linux
Cloud (AWS)	:	Aurora RDS, EC2, S3, IAM, CloudWatch, SSM, Lambda, CloudTrail, Bedrock
Database	:	PostgreSQL, Oracle
Tools	:	Git, DBeaver, PL/SQL Developer
GenAI	:	RAG, LLM, Lang Chain, Lang Graph

Professional Experience

Database Administrator   March 2024 – Present
Vitech Systems Asia Pvt Limited   Hyderabad, Telangana

Key Enhancements & Contributions (Last 2 Years)

1. **Cloud & DBA Automation:**

- ➢ Automated **Blue-Green deployment validation** and Green RDS provisioning to ensure safe, low-downtime, and repeatable production database releases.
- ➢ Implemented cross-account RDS snapshot copy between AWS accounts.
- ➢ Enhanced pg_restore script to dynamically calculate restore jobs based on RDS instance class and database count.

2. **Monitoring Automations:**
   - ➢ Developed a Python script to capture PostgreSQL lock details every minute for monitoring.
   - ➢ Built weekly metrics automation comparing Developer fixes vs AI-suggested fixes.

3. **GenAI Initiatives:**
   - ➢ Learned and applied Generative AI concepts: LLMs, Lang Chain, RAG, Lang Graph.
   - ➢ Developed an AI-powered Jira Bot to suggest solutions for newly created tickets.
   - ➢ Automated ingestion of closed Jira tickets into a vector database on a weekly basis.

Certifications