Mohammad Suhail

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Location: Mumbai, MH   **Experience:** 3.5+ Years

Professional Summary

Dedicated **PostgreSQL Database Administrator** with 3.5+ years of experience managing production-grade PostgreSQL environments in cloud and hybrid infrastructures. Skilled in **PostgreSQL internals, PL/pgSQL scripting, replication (streaming & logical)**, and performance optimization. Experienced in implementing backup and recovery strategies, tuning complex queries, and maintaining high-availability clusters using **AWS RDS & Aurora PostgreSQL**. Strong knowledge of database architecture, monitoring, and automation with Python & Bash.

Core Competencies

- **PostgreSQL Administration:** Installation, configuration, upgrades, HA setup, PITR recovery, and replication (streaming/logical)
- **Performance Tuning:** Query optimization, indexing, vacuum/analyze, execution plan analysis
- **Scripting:** PL/pgSQL, Python, Bash — automation of monitoring, alerts, and maintenance tasks
- **Backup & Recovery:** PITR, WAL archiving, snapshot/restore, and DR implementation
- **Cloud Platforms:** AWS (RDS, Aurora PostgreSQL, EC2, S3, IAM, CloudWatch), GCP (Cloud SQL, IAM)
- **Security:** IAM/KMS, access control, encryption, compliance management

Professional Experience

System Engineer (PostgreSQL DBA)   **Feb 2022 – Present**
Tata Consultancy Services (TCS), Mumbai

- Installed, configured, and upgraded PostgreSQL instances for production workloads in AWS and on-prem environments
- Managed databases up to 40 TB, optimizing performance through query tuning, indexing, and vacuuming
- Developed **PL/pgSQL functions and triggers** for data validation and automation of administrative tasks
- Configured **streaming and logical replication**, ensuring minimal downtime during version upgrades
- Designed and implemented **failover and high-availability** architectures using AWS RDS Multi-AZ and Aurora PostgreSQL
- Automated backup and restore procedures using Python/Bash, ensuring full PITR capability
- Monitored database health and performance metrics using AWS CloudWatch and custom Python scripts
- Collaborated with cross-functional teams to document DR strategies, security policies, and performance baselines

Faculty of Physics — Inertia Academy, Aurangabad   **May 2021 – Jan 2022**
Taught physics with concept-based learning, improving student understanding and outcomes.

Certifications & Training

- **AWS Certified Solutions Architect – Associate** (Aug 2025)
- **AWS Certified Cloud Practitioner** (Oct 2023)
- **PostgreSQL Essentials – LinkedIn Learning** (Aug 2024)
- **Trainocate: Architecting & Developing on AWS** (Oct 2024)

Education

Bachelor of Engineering (Mechanical Engineering)
– Dr. BAMU University, Aurangabad 2021 - (CGPA: 8.5)
Higher Secondary (Class XII)
– Shri Tripura Kanishth Vidyan Mahavidyalya, Latur 2017 - (75.69%)
Secondary School (Class X)
– Deccan Urdu High School, Udgir 2015 - (92.40%)