Ajay Kumar Dwivedi

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Professional Summary

Site Reliability Engineer with 14 years of experience, I optimize SQL Server and PostgreSQL databases while collaborating with tech teams to build infrastructure automations using DevOps CI/CD pipelines leveraging scripting tools like PowerShell, Python, Ansible, and GitHub Actions. My Strong problem-solving and communication skills, I lead & train developers and administrators to effectivly build monitoring and alerting system for organisation.

Skills

Databases: SQLServer, PostgreSQL, SQLite, RDS, Managed Instance, Aurora
Programming Languages: SQL, PowerShell, Python, JavaScript, HTML / CSS, Shell Scripting
Tools and Frameworks: Git, Linux, Ansible, Flask, Django, GitHub Actions, VS Code, Grafana, Prometheus, KVM Virtualization, Container, Podman, Docker, Ubuntu, RHEL, PowerShell DSC, Infrastructure as Code (IaC)
Cloud Platforms: AWS, Azure
High Availability & Disaster Recovery: Clustering, Availability Groups, Mirroring, Log Shipping, Replication, Disk Stripping, RAID, Multi Subnet Setup
Languages: English (proficient), Hindi (native)

Certifications

• Microsoft Certified Professional - Database Querying	Oct 2013
• Microsoft Certified Professional - Database Administration	Dec 2013
• BrentOzarUnlimited Mastering SQLServer	Nov 2022
• SQLSkills Blackbelt Professional	Jun 2023

Experience

Senior Site Reliability Engineer (DevOps)   AngelOne   02 2022 - Present
- Saved 80 hours/week DBA effort with single click Github Action based PostgreSQL Cluster deployment using Ansible Playbook.
- Optimized 10x SQL Server performance with D.E.A.T.H Methodology.
- Saved 1400 hrs/year by automating Transparent Data Encryption (TDE).
- Reduced 80% alerts with query tuning by fixing problems like Ascending Key, Kitchen Sink design, un-even threading, distributed query plans, MSTVFs, etc.
- Reduced 90% incidents by building monitoring and alerting system using PowerShell & Python.
- Automated Patroni PostgreSQL Cluster Health PagerDuty and Slack Alerts using Github Actions Workflow.
- Automated Patroni PostgreSQL Cluster Installation and Configuration using Github Actions and Ansible.

Database Reliability Engineer   Arcesium   05 2020 - 02 2022
- Resolved 100s of incidents by moving 38 TB AG databases with PowerShell.
- Automated/Upgraded 30 Critical SQLClusters/AGs in 12 hours avoiding week long downtime.
- Improved database relibility with automated ScriptOut of entire SQLServer Instances for Disaster Recovery.

Database Administrator   TiVo   02 2018 - 05 2020
- Saved 40+ hours by automating SQLServer deployment and configuration using PowerShell.
- Reduced 80% transactional replication issues with latency infra.
- Reduced 80% performance incidents by building Delta Index Defragmentation automation for replicated & HADR databases.

Senior SQL DBA   United Health Group   10 2016 - 02 2018
- Saved $1 million/year via DB Space Capacity Automation.
- Improved 50% performance issues with reduced VLDBs maintenance time.

Technical Lead   Ericsson Global   06 2015 - 10 2016
- 3x Performance Improvement via advanced query optimization like Recursive CTE and Table Partitioning.
- Lead 18+ developers for best practices and guidelines.

SQL DBA Developer   TATA Consultancy Services   03 2011 - 06 2015
- Moved 250+ large tables with each having billions of records using SSIS in 45 hours.
- Built data warehouse ETL pipelines using Pentaho & Kettle for high volume Liquor Retail stores.
- Saved 20+ hours/week by Automating core DBA tasks using dynamic SQL.

Education

Bachelor of Engineering in Electronics & Communication Engineering
RustamJi Institue of Technology

07 2006 - 06 2010
Gwalior, Madhya Pradesh

Awards and Honors

Tech Titan, AngelOne for 10x Performance Optimization on Prod SQLServer. 2022
Sapphire, United Health Group for Innovation and automations. 2017

Projects

SQLMonitor: Open source Enterprise grade SQLServer monitoring tool **01 2021 - Present**
- Built using TSQL, PowerShell, Python, and Grafana.
- Successfully monitoring 500+ SQLServers across environments.
- Observability alerts to Slack, PagerDuty and Email
- Inbuilt auto action to Clear & Resolve

HadrSync: PowerShell module that synchronizes all objects across Replicas in Availability Groups **01 2021 - Present**
- Ensures zero sync issues during failovers/Drs.
- Detects & synchronizes even delta changes like changes in passwords, definition etc.

Availability

Notice Period: 90 Days
Relocation: Open to Relocation
Remote: Open to remote opportunities

FINAL NOTE

I have problem-solving mindset and love designing efficient database systems and solving complex performance challenges in collaboration with various tech teams. I help organisations build robust, fully automated infrastructure with PowerShell, Python and Ansible.