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.

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   07 2006 - 06 2010

RustamJi Institue of Technology   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   **01 2021 - Present**
Groups
- 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.