**Ajay Kumar Dwivedi**

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**PROFILE**

With 14+ years of experience, I optimize database systems like SQLServer & PostgreSQL. I Build Infra automation with scripting tools like PowerShell, Python and Ansible.

**SKILLS**

**Technical:** Data Warehouse, ETL, Data Visualization, AI Automation, Clustering, HADR, MVP

**Programming**: SQL, Linux Shell scripting, PowerShell, Python, Ansible

**Tools:** SQLServer, PostgreSQL, Grafana, SQLDiag, Azure Managed Instance, Flask, Git, AWS (RDS, EC2, Aurora), Azure (SQL Db, Managed Instance, VM)

**CERTIFICATIONS**

* SQLSkills Blackbelt Professional – 02/2023
* BrentOzar Unlimited Mastering SQLServer – 11/2022
* Microsoft Certified Professional – 10/2010

**EXPERIENCE**

AngelOne *Bangalore, India*

**Senior Site Reliability Engineer**  02/2022 – Present

* Optimized SQL Server performance with D.E.A.T.H Methodology (IO latency: 350ms → <9ms)
* Automated Transparent Data Encryption (TDE) for 280+ servers
* Reduced query time to 20x by fixing problems like Ascending Key issue, Kitchen Sink design, uneven threading, distributed query plans, MSTVFs, etc
* Built Monitoring & 45+ Alerts using PowerShell & Python for SQLServers

Arcesium  *Hyderabad, India* **Database Reliability Engineer**  05/2020 - 02/2022

* Designed AlwaysOn Readiness Solutions using PowerShell & Grafana
* Designed PowerShell module to move 38 TB AG databases
* Automated/Upgraded 30 SQL Instances, having Replication on top of AG replicas formed of SqlClusters in 12 hours
* Automated Script Out of entire SQLServer Instance for Disaster Recovery Drills

TiVo *Bangalore, India*

**Senior SQL DBA**  02/2018 – 05/2020

* Saved 100+ hours by building Self-service portal using Flask
* Saved 40+ hours by automating SQLServer deployment and configuration using PowerShell
* Reduced Replication Health & Latency issues by 10x with latency infra
* Reduced performance incidents by 5x by building Delta Index Defragmentation automation for replicated & HADR databases

United Health Group *Noida, India*

**Senior SQL DBA**  10/2016 – 02/2018

* Saved $1.0 million/year via DB Space Capacity Automation
* Reduced VLDBs maintenance time by 3x with effective backup & defragmentation strategies

Ericsson Global *Gurgaon, India*

**Senior SQL Developer**  06/2015 – 10/2016

* 3x Performance Improvement via advanced query optimization like Recursive CTE and Table Partitioning
* Mentored team on SQL Best Practices

TATA Consultancy Services *Noida, India*

**SQL DBA Developer**  03/2011 – 06/2015

* Built data migration pipelines using SSIS to move billions of records
* Built data warehouse refresh pipelines using Pentaho & Kettle Retail stores
* Saved 20+ hours by Automating core DBA task using dynamic SQL

**PROJECTS**

[**SQLMonitor**](https://github.com/imajaydwivedi/sqlmonitor) 01/2021 - Present

* Open source Enterprise grade SQLServer monitoring tool
* Built using TSQL, PowerShell, Python, and Grafana
* Successfully monitoring 500+ SQLServers across environments

[**Credential Manager**](https://ajaydwivedi.com/powershell/how-to-handle-passwords-in-powershell-automation/) 09/2023 – 01/2024

* Password Manager for DBA Infra automations
* Built using TSQL to seemly access/save password securely

[**Alert Engine**](https://ajaydwivedi.com/sqlmonitor/setup-sqlserver-alerts-with-open-source-sqlmonitor/) 04/2024 – 01/2025

* Password Manager for DBA Infra automations
* Built using TSQL to seemly access/save password securely

[**HadrSync**](https://github.com/imajaydwivedi/HadrSync) 05/2020 – 08/2020

* PowerShell module that synchronizes all objects across Replicas in Availability Groups
* Built using TSQL & PowerShell to ensure zero sync issues during failovers/Drs.

**ACHIEVEMENTS**

* Muliple records for infra automations – [GitHub](https://ajaydwivedi.com/go/rewards)
* Performance Tuning and Trobleshooting blogs appreciated by Brent Ozar
* Built various open source projects for community

**EDUCATION**

RustamJi Institute of Technology *Gwalior, India*

**Bachelor of Engineering** in Electronics & Communication Engineering 2006 – 2010

**FINAL NOTE**

I’m passionate about **designing efficient database systems** and **solving complex performance challenges**. I help organisations build robust, fully automated infrastructure with PowerShell, Python and Ansible.