

# 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 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 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

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

09/2023 – 01/2024

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

### Alert Engine

04/2024 – 01/2025

- Password Manager for DBA Infra automations
- Built using TSQL to seamlessly access/save password in secure manner

### 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

- Multiple rewards for infra automations – [GitHub](#)
- Performance Tuning and Troubleshooting 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.