

# Ajay Kumar Dwivedi

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## Professional Summary

Site Reliability Engineer with 14+ years of experience, I automate infrastructure using DevOps CI/CD pipelines leveraging scripting tools like PowerShell, Python, Ansible, GitHub Actions, Containers etc. I build monitoring and alerting systems using tools like Python, PowerShell, Flask, Prometheus and Grafana for both On-Prem and Cloud platform (AWS & Azure).

## Skills

**Databases:** SQLServer, PostgreSQL, SQLite, RDS, Azure SQL, 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

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| • Microsoft Certified Professional - Database Querying       | Oct 2013 |
| • Microsoft Certified Professional - Database Administration | Dec 2013 |
| • Brent Ozar Unlimited Mastering SQLServer                   | Nov 2022 |
| • SQLSkills Blackbelt Professional                           | Jun 2023 |

## Experience

**Senior Site Reliability Engineer (DevOps) AngelOne** **02 2022 - Present**

- Automated multi datacenter HA & Standalone PostgreSQL setup using Ansible
- Automated disk, connectivity, patroni health, and backup alerts for PostgreSQL servers using python
- Saved 80 hours/week SRE effort with single click Github Action based PostgreSQL Cluster deployment & Configuration using Ansible Playbook.
- Baselined all windows & linux servers using Prometheus and Grafana
- Created Github Repo based baselining of servers to ease monitoring and baselining using Prometheus and Grafana
- Automated common database teams activities like installation, configuration, monitoring and alerting using PowerShell, Flask, Python, TSQL, Grafana, and PagerDuty for On-Prem and Cloud Managed Instances

**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 reliability with automated ScriptOut of entire SQLServer Instances for Disaster Recovery.
- Built automations to prevent common issues like tempdbSaver, LogSaver etc.

**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**

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### **Bachelor of Engineering in Electronics & Communication Engineering**

RustamJi Institute of Technology

**07 2006 - 06 2010**

Gwalior, Madhya Pradesh

## **Awards and Honors**

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**Tech Titan**, AngelOne for 10x Performance Optimization on Prod SQLServer. 2022

**Sapphire**, United Health Group for Innovation and automations. 2017

## **Projects**

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**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**

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**Notice Period:** 90 Days

**Relocation:** Open to Relocation

**Remote:** Open to remote opportunities

## **FINAL NOTE**

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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.