

# Ajay Kumar Dwivedi

📧 ajaydwivedi.com  
📍 Nagpur, Maharashtra, India

🔗 github.com/imajaydwivedi  
🌐 linkedin.com/in/imajaydwivedi

☎ (+91) 703-231-2749  
✉ ajay.dwivedi2007@gmail.com

## 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. With my Strong problem-solving and communication skills, I lead & train developers and administrators to effectively 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), LangChain, Ollama, OpenAI

**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**

- Developed DB AI Agent using Ollama (LLM) and LangChain for Performce Monitoring & Troubleshooting
- 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 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

<b>Bachelor of Engineering in Electronics &amp; Communication Engineering</b>	<b>07 2006 - 06 2010</b>
RustamJi Institue of Technology	Gwalior, Madhya Pradesh

Awards and Honors

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

Projects

<b>SQLMonitor:</b> Open source Enterprise grade SQLServer monitoring tool	<b>01 2021 - Present</b>
<ul style="list-style-type: none"><li>• Built using TSQL, PowerShell, Python, and Grafana.</li><li>• Successfully monitoring 500+ SQLServers across environments.</li><li>• Observability alerts to Slack, PagerDuty and Email</li><li>• Inbuilt auto action to Clear &amp; Resolve</li></ul>	
<b>AI Agent:</b> AI Agent to help application users troubleshoot database performance issues interactively though portal & Slack	<b>10 2025 - Present</b>
<ul style="list-style-type: none"><li>• Built using Python, LangChain, Ollama, and SQLMonitor</li><li>• Successfully handling developers/application users in Database Performance tuning</li></ul>	
<b>HadrSync:</b> PowerShell module that synchronizes all objects across Replicas in Availability Groups	<b>01 2021 - Present</b>
<ul style="list-style-type: none"><li>• Ensures zero sync issues during failovers/Drs.</li><li>• Detects &amp; synchronizes even delta changes like changes in passwords, definition etc.</li></ul>	

Availability

<b>Notice Period:</b> 90 Days
<b>Relocation:</b> Open to Relocation
<b>Remote:</b> 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.