**Binyam T Abraha**

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Professional Summary

Results-driven DBA professional with diverse experience in systems development and database design. Proven Expertise in database administration with an in-depth understanding of SQL Server administration, design and development. Demonstrated strength in supporting large scale, mission-critical database systems and configuring for high availability, scalability, and disaster recovery. Recognized for strong ability to lead on/offshore teams in database administrating, performance tuning, and system integration.

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| * Disaster Recovery * Process Automation * Database Optimization * Azure Cloud | * Azure SQL * Automation, Implementation & Testing * High Availability * Data Encryption | * Solutions Architect * Root-Cause Analysis * SQL Server Security * Designing & Implement |

# Technical Environments

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| **Databases:** | SQL Server 2005, 2008, 2008R2, 2012, 2014, 2016, 2017 & 2019 |
| **Tools:** | MSSQL Profiler, Database Mail, SQL server Performance Tuning Using DTA, Data modeling tools like MS Visio, other DTL Tolls like SSIS/DTS, and detail knowledge of using MS Visual studio 2008/2010 and In memory OLTO |
| **3rd Party Tools:** | Erwin (Computer Associates), light speed back up tool, OVO monitoring tools, iperf, Tools in recent environments include, Idera SQL (Doctor, schema and data compare, Admin tool set), XFTP, Putty and Solar Winds Database performance analyzer, and Quest |
| **Backup & Recovery:** | SQL doc and SQL back up Pro (Redgat’s) |
| **OS:** | MS Windows, Azure |
| **Hardware:** | IBM Power 750 Express server, SAN-Clariion CX4 Model 480, NCUBE, AMD64, HP 3000, DEC Alpha, RS 6000, Sun 3's, Sun SPARCstations**,** VMS 6000, Alpha AXP |

# Professional Experience

**Federal Transit Administration**

**DBA**, April 2019–Present

Environment: 50 Production servers each hosting from 10 to 258 production databases involving small to very large size, on physical and virtual machines, more than 80 development, test and QA servers, tickets (JIRA, Team Track and Service Desk), Solar winds, SSIS packages, DBCC scripts, AlwaysON Configuration

* Installed, Configured, Design and Managed MS SQL 2016, 2017, 2019 Standalone and Clustered Services.
* Monitored current (as-is) manual/auto processes for efficiency, productivity, and access issues to quickly identify bottlenecks, performance delays, and gaps in the current process vs. the desired (to-be) process maps.
* Configured High Availability solutions like Logshipping, Mirroring**,** WindowsFailoverCluster, and Always ON.
* Applied multiple deployments ranging from simple support to large and complex projects.
* Performed pre-and post-refresh activities, before deploying the database to users.
* Addressed issues other than technical and performance by raising tickets to appropriate team to accommodate our assets with additional resources such as disk space.
* Managed Security using SQL logins, roles and security for various users on a day to day Access requests for new employees and terminated employees such as contractors and permanent employees thus by making sure servers are secured ultimately.
* Minimized response time required to resolve system slowdown and system shutdown by troubleshooting issues related to database, connection issues, SQL server slow response, query issues, and permissions.
* Safeguarded organizational data with a physical standby for disaster recovery and logical standby for reporting in addition to managing security using SQL logins, roles, and security protocols for various users.
* Optimized performance with upgrades such as the migration from SQL server 2014 SQL servers to SQL server 2016 and 2019 successfully integrating new features and improved database stability.
* Improved efficiency with the creation of tools to interact with multiple databases that resulted in easy oversight of free space, data, system resources, and smooth facilitation of reports and deliverables.
* Impacted system performance by tuning long running SQLs to increase load time while adding additional indexes, changing access paths, rewriting queries, and adding partitioning.
* Resolve Vulnerability issues and compliance issues Patching Windows Monthly Resolve DB Scan issues
* SQL native Database Encryptions and third party Encryption software, Server Auditing, Documentation
* Create and configured Azure subscriptions, resources groups and deploy resources such as Azure SQL Databases, Virtual Machines, Azure Storages
* Used Azure Migration tools to migrate on-premises SQL Database to Azure

**Maryland Department of Education**

**DBA**, August 2015–March 2019

Environment: 18 Production servers with 10+ databases in each servers with more than 1.5TB of data per servers. AlwaysOn Configuration on virtual machine. Around 100+ development, Test and Quality Assurance environment. (JIRA, ServiceNow), Solar winds, SSIS packages, DBCC scripts

* Boosted performance by designing and developing scripts to refresh applications and build test databases with subset of refined data while also migrating large volumes of production data to archive databases.
* Served as a “point of resolution,” closely monitoring disk space, system load, Disk IO, CPU, and memory usage to identify top oracle/SQL processes and troubleshoot performance issues.
* Experience with Database Partition, In Memory OLTP
* Worked in close collaboration with other teams to rollout 60 deployments ranging from simple support to large and complex projects.
* Enhanced organizations ability to quickly recover data by testing crash recoveries using a combination of strategies and tools. Addressed issues other than technical and performance by raising tickets.
* Monitored health of databases (OEM) and analyzed key performance metrics while also creating automated scripts for additional monitoring.
* Gained extensive experience in creating/altering/modifying and tuning T-SQL stored procedures, complex queries, views, tables, and functions on OLTP environments.
* Developed automated backup jobs and DBCC scripts for databases using maintenance plan, other native tools and third-party software.
* Created reports using our tools to notify managers and business owners the daily status of our SQL servers.

**Social Security Administration**

**DBA**, January 2013– July 2015

Environment: 40 Production Servers, Physical and Virtual Machines. Multiple databases supporting OLTP and OLAP

Applications.60 plus development and staging environments. Solar winds, GITHUB, SSIS, SSAS and SSRS.

* Installed, Configured, and Managed MS SQL 2005, 2008, 2012 Standalone and Clustered Services.
* Upgraded MSSQL Server 2008 MSSQL 2012 with side by side migration.
* Applied Patches and Service Packs (SPs) on all the servers.
* Managed security including creating/altering of Principals, grant of Server/DB roles and permissions on various database objects by using appropriate security modes.
* Configured High Availability solutions like Logshipping, Mirroring**,** WindowsFailoverCluster, Always ON.
* Implemented different types of Replication Models like Snapshot, Merge, Transactional and Peer toPeer(P2P).
* Created and automated database maintenance plans such as backing up database task, checking database integrity task, maintenance cleanup task and rebuild and reorganize index tasks among others.
* Performed Full, Differential and T-Log backups as routine operations.
* Provided input on the development of Service Level Agreements (SLA), Recovery Point Objectives (RPO), and Recovery Time Objectives (RTO).
* Configured, Deployed, Scheduled, and managed Troubleshooting SSIS Packages.
* Configured & deployed package using SQL server Reporting service (SSRS).

# Education & Certifications

Computer Science, University of Bahirdar

Certified, Microsoft SQL Database Administration

# Professional Affiliations

**Member,** IACSIT, 2012. International associations of computer science and information technology (IACSIT)

**Member,** SQL Server Central, 2012, a community of more than 1,600,000 SQL server

**Member,** MSDN: <https://msdn.microsoft.com/en-us/dn308572>.

**Certified,** AZ-300 Microsoft Azure Architect Technologies

AZ-301 Microsoft Azure Architect Technologies

CMMI Service Delivery and Developing