**Reazul Islam**

**(917) 400 9924**

[**reazul34@gmail.com**](about:blank)

[**linkedin.com/in/reazul-islam-mba-3a8630198**](https://www.linkedin.com/in/reazul-islam-mba-3a8630198?lipi=urn%3Ali%3Apage%3Ad_flagship3_profile_view_base_contact_details%3BU0j60LHzT6G%2FXT%2Ft00eYyg%3D%3D)

**Professional Summary**

• IT Professional with 13 years of experience with a strong Linux background and experience in designing, implementing, and managing cutting-edge deployment automation of cloud resources. And administering on-prem/cloud based multiuser environment with expertise in planning, designing, building, and implementing complex database systems Microsoft SQL Server, MySql, MariaDB , PostgreSQL. Experiences in Data analysis, both logical and physical modeling using ERWin and ER Studio. Experiences of handling very large database (VLDB) on both on-premises and AWS/Azure clouds. Built deployment plans for test and production environment using CICD tools. Identified and helped resolve application environment issues, such as connection firewall/port issues.

•Proactively identified and resolved performance bottlenecks for databases by modifying store procedures. Actively manage, improve, and monitor cloud infrastructure on AWS, EC2, S3, and RDS, including backups, patches, and scaling. Managed GitHub repositories and permissions, including branching, merging and tagging.

• Implemented Disaster Recovery techniques like Always on , Failover Clustering, Logical and streaming Replication among data centers. Used different method of backup/restore manual , rsync, scp etc. Migrated MSSQL to Azure. Migrated PostgreSQL to AWS Aurora . In depth knowledge of Microsoft SQL Server, MySql and PostgreSQL architecture.

•Leveraged Docker and Ansible playbook design for continuous deployment and continuous delivery and maintain responsibility for configuration management for infrastructure as code.

• Hands on experience in working with MSSQL, PostgreSQL. Experience in Performance Tuning, Index Tuning, troubleshooting slow running query and Query Optimization in MSSQL , PostgreSQL. Expert in using Native tools like SQL Server Profiler, activity monitor, Database Tuning Advisor and Perfmon. Hands-on experience in resolving locks, handling Isolation levels and performance issues like CPU, I/O, Memory bottlenecks.

• Experienced in PostgreSQL database Bloating, DeadTuples, Vacuum Full , pg\_repack for performance , implemented data integration tool dbforge , disaster management process WAL file archiving for PITR (point in time recovery), streaming replication, and rep manager for disaster recovery , native tools PEM (PostgreSQL Enterprise Manager) for monitoring .

• Experience in development and deployment of MS SQL Server Integration Service (SSIS) packages for various data sources. Experience in scripting for data load and migration using python, c#, bash, power shell, tsql and pgsql for MS SQL and PostgreSQL. Extensively implemented automation tools Ansible, terraform, Jenkins , Bamboo for cicd purpose in database server in both AWS and Azure cloud environment

•Supported 24 X 7 Production on Call, maintenance and experience on monitoring tools including Solarwinds, Zabbix, Nagios .

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**Technical Proficiency**

**Project Domain:** Application Development, CICD, Database development, Data Migration,

**Cloud:** AWS services (EC2, S3, Route53, SQS, IAM, CloudWatch, CloudFormation), Microsoft Azure

**Databases:** PostgreSQL 9.6/10.11, MS SQL Server 2016/2014/2012/2008, MySQL 5.7, MariaDB 10.2/10.3,

**ETL Tools:** MS SSIS, SQL Server bulk insert and BCP utilities

**Tools:**  GitHub, VSCode, Jira, Confluence, Splunk, ZABBIX, Nagios, SolarWinds, VS 2013/2015, SSDT

Team Foundation Server, JBOSS, Tomcat, Ansible 2.8 , Terraform 11.7 , Apache Kafka 2.4 Datadog, Puppet, Jenkins, Visio 2013, Idera, Red gate, Tivoli, Symantec Net Backup, Cyber Arc, ERStudio .

**Languages:** TSQL, PL/SQL, MySQL, pgSQL, JavaScript, HTML, XML, Python, PowerShell.

**Operating Systems:** Windows 10, windows2012, 2016, Ubuntu 18.04, Centos 7/8, Linux

**Certificates**

Certificate Of Completion

1. Learning Cloud Computing and Monitoring Datadog -LinkedIn

### 2. [Learning Cloud Computing: Monitoring and Operations](https://www.linkedin.com/learning/learning-cloud-computing-monitoring-and-operations-2) -LinkedIn

### 3. [DevOps Foundations: Site Reliability Engineering](https://www.linkedin.com/learning/devops-foundations-site-reliability-engineering)-LinkedIn

### 4. [DevOps Foundations: Microservices](https://www.linkedin.com/learning/devops-foundations-microservices) -LinkedIn

### 5. [Kubernetes: Service Mesh with Istio](https://www.linkedin.com/learning/kubernetes-service-mesh-with-istio)-LinkedIn

# 6. Master Cloud-Native Infrastructure with Kubernetes- LinkedIn

### 7. [Kubernetes: Monitoring with Prometheus](https://www.linkedin.com/learning/kubernetes-monitoring-with-prometheus)- LinkedIn

8. Advance Python - LinkedIn

### 9. [Kubernetes: Microservices](https://www.linkedin.com/learning/kubernetes-microservices)- LinkedIn

### 10. [DevSecOps: Building a Secure Continuous Delivery Pipeline](https://www.linkedin.com/learning/devsecops-building-a-secure-continuous-delivery-pipeline)- LinkedIn

### 11. Kubernetes: Native Tools – LinkedIn

### 12. [Git Essential Training: The Basics](https://www.linkedin.com/learning/git-essential-training-the-basics)- LinkedIn

### 13. [Python Standard Library Essential Training](https://www.linkedin.com/learning/python-standard-library-essential-training)-LinkedIn

### 14. Learning Kubernetes -LinkedIn

15. Kubernetes: Cloud Native Ecosystem-LinkedIn

16. Learning Dockers -LinkedIn

17. Advance Microsoft Power BI- LinkedIn

### 18. MySQL Essential Training- LinkedIn

### 19. [Docker](https://www.linkedin.com/learning/git-essential-training-the-basics) On AWS- LinkedIn

20. SQL Server Reporting Services- LinkedIn

21. SQL Server Machine Learning Services: Python-LinkedIn

22. Learning SQL Server Development on Linux- LinkedIn

23. Terraform Basics- LinkedIn

1.Ansible Quick Start- Linux Academy

2.Database Administration and SQL Language Basics-Linux Academy

3.Kubernetes Essentials- Linux Academy

4.SQL Deep Dive- Linux Academy

5.The System Administrator's Guide to Bash Scripting-Linux Academy

1.AWS solution Architect- Associate-Learning Tree International

2.PMP (6th edition 2018) complete- Velociteach International

3**.**Advance Cyber Security Course: Digital Forensics Tools and Techniques-Learning Tree International

1.Microsoft AZURE Administrator Associate

1.SQL Server Performance Tuning- Udemy Academy

**Education**

**Master of Business Administration (International Business)**

Maastricht School of Management, Netherlands, 2001-2003

**Bachelor of Business Administration (Accounting)**

Washburn University, Topeka, Kansas, U.S.A, 1996-2001

**Experience**

**Sr Database Engineer , Oct-2016 –**

**Administrative Office of US Federal Courts**

The Administrative Office, the administrative arm of the federal judiciary, The AO is responsible for: Providing counsel and support to the Judicial Conference of the United States and its committees, and implementing Conference policies and decisions. Assuring fulfillment of the Director’s statutory and fiduciary obligations. Delivering financial, human resource, legal, statistical, technological, and other administrative and program services to the judiciary. Distributing resources within the judiciary and 94 Federal districts courts and 9 circuit Appellate courts and Law enforcement agencies. Addressing the needs of courts, judges, court executives, and other judiciary employees and organizations, and providing guidance and assistance to facilitate successful performance of their functions. Serving as liaison between the judiciary and the legislative and executive branches of the federal government, other judiciaries and governmental entities, private organizations, the media, and the public.

**Roles and Responsibilities:**

* Hands on experience in AO of US courts application support from database development for Case Management Electronic Case Files (CM/ECF) and PPS: Probation Pretrial Services application portfolio supports the probation and pretrial services officers ,Cloud Technology and Hosting Office (CTHO): Server support OS level and systems Deployment and Support Office, National Support Division (SDSO-NSD): client support
* Supported Primary Applications: Probation and Pretrial Services Automated Case Tracking System (PACTS), Business Intelligence :DSS –Decision support System. Managed database server for Disaster recovery , Incident impact and urgency matrix, Updated Wiki ( internal incident update website). Creating report and maintaining biggest application OPERA: Offender payment Enhanced Report Access , CCAM database .Supported and maintained database server related to LENS: Law enforcement notification system , BOP red flag and sex offender registration system : Bureau of Prison , FBI : federal Bureau of Investigation. BOP Client Mapping , NPR ( National PACTS REPORT ) Districts file for Quarterly Report .
* Designed databases for the application Risk Assessment (RA): Lumira 2.0 , BAIMS: Bankruptcy Administrator Information management System ,DD-web: Defender data web, JAI: Judiciary Application Inventory ,PSX: Pretrial interview, bail report, Presentence module report, Info web , Docusign, IPACTS –mobile app, PPS; Personal Projection System and also AO Emergency Notification System (ENS) in environment - Development, Test, Stage, Production. Used Ansible to automate and orchestrate workloads for a large-scale .NET application and Apache webserver. Consulted with customers and Business Intelligence team to improve NPR quarterly report.
* Wrote Scripts to set up CyberARC access /password vault application. Designed continuous integration best practices for the development team using Docker, Ansible, and Bamboo. Collaborating with other DevOps engineers to maintain a deployment and management strategy - Assisting with creating and maintaining an automation and monitoring framework - Developing automation, Creating and implementing application monitoring and logging strategies using tools like Splunk.Patches, upgrades, and troubleshoots production and/or non-production database server .Handling connection TLS key with load balancing microservices, etc. Actively developed code and implemented DMS/DMA for the CMSO all the server Migration to AWS and MS AZURE.
* Worked with Judiciary Records Management Program (JRMP), National Archives and Records Administration (NARA), Office of Court Administration (OCA) within the Public Access and Records Management Division (PARMD) to expungement of client data according to Court judgement by developing SQL code.
* Experience applying Security Technical Implementation Guides (STIGs) to MS SQL Server environments.

**Sr Database Engineer, Jun 2013-OCT 2016**

**Loudoun Medical Group, Leesburg, VA**

Loudoun Medical Group (LMG) operates the largest multi-specialty health care group in Northern Virginia. Loudoun Medical Group’s Immediate Care Center has access to modern medical technology and up-to-date medical records – especially for patients of one of the 40 LMG practices – through our electronic medical record system.

**Roles and Responsibilities:**

• Design database for PULSE, eClinicalWorks, Allscripts, and other EMR systems.   
• Strong development experience in MS SQL Server clustered environment for mission critical systems.   
• Provide continuous monitoring, troubleshooting of the MS SQL Server environments.   
• Develop scripts supporting the database function using Windows Power Shell.  
• Periodically refresh development and test databases using copy of production system.   
• Configure and manage the database systems as per security guidelines and industry best practices such as SOX, HIPAA, and PCI.

• Install, configure and maintain also designed and developed MSSQL, PostgreSQL databases to support development while ensuring quality performance, reliability, and security. Developed and maintained ETL tool / SSIS package using MSSQL as data source for reporting database of Case Management application. Maintain highly available SQL Server databases using SQL Database Mirroring Technology, always on and SQL Replication.   
• Maintain highly secure SQL Server databases using SQL Transparent Data Encryption, SQL Line Encryption, and enhanced SQL Server Auditing features.  
• Tune database configuration for optimal system performance and ensure proper setting of system memory and system parameters.

**SR SQL DBA/ DEVELOPER, Jun 2008 - May 2013**

**AM TRUST FINANCIAL SERVICES**   
 AM trust financial is a group of US insurance and financial services companies. Its corporate headquarters are in Bloomington, Illinois. In more than 87 years of operation, the company grew to serving clients in 14 states and offering products and services in 40 states. Country Financial and its alliances serve more than 1 million households and businesses and insure more than 1 million vehicles and a half a million homes throughout the United States.    
**Roles and Responsibilities:**   
• Design ,develop , install & configure SQL Server database 2005/2008/2008 R2.  
• Upgraded SQL Server databases to latest service packs & hotfixes.  
• Continuously monitoring and updating the Backup & Recovery strategy and also monitoring scheduled jobs of backup and restore procedure for databases .  
• Maintenance work on different databases Re-indexing, Statistics Update, freeing up spaces from log files.  
• Implementation of Logins, creating Users, assigning responsibilities as a part of Security Policies for various categories of User Support , troubleshooting orphaned users .  
• Developed and modified Store procedure and SSIS package  .Experience in database Replication making data available to all the resources, administration. Have experience on Failover clustering, rebuilding master databases during crash situations.