ABU MOHAMMAD TARIQUL ISMAIL

Cloud Enterprise Architect |Terraform | Lambda |Step Functions | S3 |DR-BCP|CI/CD

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PROFESSIONAL SUMMARY

10+ years of experience designing and leading cloud-native and hybrid data infrastructure. Expert in Cloud-based architecture, design, and deployment (Azure, AD DS, Azure AD, Exchange). Specialized in AWS Serverless Architecture, Infrastructure as Code (IaC) using Terraform, and dynamic ETL pipelines using Python, Glue, and Step Functions. Proven ability to deploy scalable, secure, and cost-effective cloud environments. Skilled in CI/CD automation, real-time data streaming, and event-driven architecture across financial and enterprise-grade workloads.

CORE COMPETENCIES

- ***Cloud Services***: Lambda · Step Functions · API Gateway · DynamoDB · S3 · Glue · Athena · CloudWatch · EventBridge
- ***IaC & CI/CD:*** Terraform · CloudFormation · GitHub Actions · Jenkins
- ***Data Engineering***: Python · PySpark · ETL · AWS Glue · Kafka · Spark · Snowflake
- ***Infrastructure & backup***: Hosting, virtualization, backup (VMWare, Hyper-V, Veeam, Commvault, NetBackup)
- ***Security & Networking*** : IAM · VPC · Security Groups · KMS · Logging & Monitoring
- ***Data Architecture :*** (DWH | Data Vault | Conceptual Modeling | PL/SQL)
- ***BCP/DR*** : Security · DR/BCP · Compliance · (IAM | VPC | Monitoring | Data Governance)
- ***Communication*** : Business Stakeholder Communication | SoW | Budgeting | Architecture Docs

PROFESSIONAL EXPERIENCE

AWS Cloud & Serverless Engineer (Cloud Enterprise Architect)

Freelance |Consultant (via www.tariqulismail.com) | Remote | Jan 2024 – Present

- Architected and deployed a Serverless Visitor Tracking System using API Gateway, Lambda, DynamoDB, S3, and CloudWatch.
- Defined CloudFormation templates and implemet CI/CD pipelines with GitHub Actions for automat provision and deployments.
- Integrated IP geolocation and Athena-based analytics to deliver real-time user insights.

Data Engineer & BI Developer

Prime Bank Limited, Dhaka Bangladesh | https://www.primebank.com.bd/ | 2018 to 2023

- Developed enterprise-level data warehouse (DWH) handling millions of transactional records and build ETL workflows
- Migrated legacy pipelines to cloud-native architectures, integrating with AWS storage and compute.
- Implemented real-time dashboards for executive reporting, reducing manual reporting workload.

ETL Developer & Data Analyst

United Commercial Bank Limited, Dhaka Bangladesh | https://www.ucb.com.bd/ | 2011 to 2018

- Managed the end-to-end development of data warehouses, integrating data from multiple banking systems.
- Developed ETL workflows with Talend and Python, enabling seamless data migration across more than 150 branches.
- Created real-time monitoring dashboards and automated reporting systems using Power BI and Tableau.

Senior Software Engineer

Leads Corporation Limited, Dhaka Bangladesh | https://leads.com.bd/ | 2006 to 2011

- Developing web based Banking S/W developed by ASP .Net, C#.Net 2005, Crystal Reports, Oracle 10g.
- Designed and optimized complex SQL queries, stored procedures, and triggers to support applications.

EDUCATION

- M.Com. (Management), National University, Bangladesh..
- Diploma in systems analysis & design, Bangladesh Islamic Solidarity IT Scholarship project.

TECHNICAL ENVIRONMENT

AD DS, Azure AD, Exchange, AWS Glue, S3, Redshift, Lambda, Athena, EMR, Kinesis, RDS, DynamoDB, PySpark, SQL, Python, Terraform, CloudFormation, Jenkins, GitHub Actions, Docker, CloudWatch, AWS Config, SNS, IAM, Talend, Airflow, Kafka/MSK, Talend, DBT

CERTIFICATIONS

- ***AWS Cloud Technical Essentials*** | [Link](#) | Describe terminology and concepts related to AWS services.
- ***ITIL 2011 Foundation*** | [Link](#) | Successfully Completed The course.
- ***Data Analysis with Python*** | [Link](#) | Can readily clean, visualize and summarize data analysis technic.
- ***The Power of Statistics*** | [Link](#) | Conduct a hypothesis test to identify insights about data.

PROJECTS

- ***AWS Serverless Website Visitor Tracker:*** [Link](#) : A lightweight, scalable, and cost-effective serverless visitor tracking system built with AWS Lambda, API Gateway, and DynamoDB. Collect visitor logs from your website with zero infrastructure management.
- ***Real-Time YouTube Trend Analysis:*** [Link](#) : Project of an end-to-end data pipeline using Python, Apache Airflow, Apache Spark, Docker, Amazon S3, Snowflake, and Google Looker Studio for real-time data processing and visualization.
- ***Sales Analytics Data Pipeline with PySpark:*** [Link](#) : This project demonstrates a production-ready ETL/ELT data pipeline that transforms raw sales transaction data into a comprehensive star-schema modeled data warehouse using PySpark, SQL, and data engineering best practices.
- ***Metadata-Driven ETL Pipeline:*** [Link](#) : Developed a real-time streaming data pipeline using AWS services and Python. Processes IoT, energy, and AI workflow data using event-driven architectures.