



Akhil Kumar Kolli

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Certified AWS Developer & Software Innovator. Passionate about building next-gen data-driven solutions with SQL, Python & AWS. Foster collaboration & impactful contributions with expertise in functional languages & software tools. Leveraging data to empower progress and drive success.

Software and Tools: R (ggplot2), Python (pandas, NumPy, SciPy, Matplotlib), SQL (MySQL, Microsoft SQL Server), AWS (S3, Lambda, Glue), Cost Optimization Tools, Development Tools (Code Commit, Terraform), BI/Data Visualization Platforms (Power BI, Tableau), Big Data Technologies (Spark, Hadoop, AWS EMR).

Competencies: Data Manipulation, Database Management, AWS Services, Cost Optimization, Development Tools, BI/Data Visualization, Big Data Technologies.

WORK EXPERIENCE

Amazon INC

Senior Data Analyst

Hyderabad
Jan 2021- Dec 2022

- Designed and developed reusable code modules for efficient data extraction and ETL logic implementation.
- Built end-to-end data pipelines using AWS services (Lambda, API Gateway, Redshift) for data ingestion, preprocessing, normalization, and loading.
- Utilized Redshift Spectrum for change data capture (CDC) and incremental data processing, ensuring data freshness and reducing data redundancy by 20% through efficient quality checks with SQL statements.
- Established a data lake on S3, migrated client Oracle database data using AWS DMS, and performed ETL operations with Glue jobs.

Zen3 InfoSolutions.

Data Analyst (Client - Microsoft)

Hyderabad
Jun 2019 – Dec 2020

- Optimized Satori Knowledge Graph performance using advanced SQL techniques, achieving a 30% reduction in execution times.
- Conducted performance tuning of SQL queries, improving resource utilization and overall application performance within Satori.
- Employed complex SQL queries to explore intricate relationships within Satori's knowledge graph, facilitating the discovery of valuable insights.
- Collaborated with development teams to translate business requirements into actionable data solutions using Power BI, integrating seamlessly with Satori applications.

Cognizant Technologies Services

System Analyst (client - Unified Banking solutions)

Hyderabad
Jun 2018 - May 2019

- Configured and managed AWS Shield and AWS WAF using Boto3 to mitigate 95% of potential DDoS attacks, significantly improving the security of the cloud environment.
- Developed Python Boto3 scripts to enforce Time to Live (TTL) on customer databases, ensuring automatic data deletion for optimized storage and compliance with retention policies.
- Wrote and executed SQL queries for AWS RDS, implemented ACID-compliant strategies, and used CloudWatch to monitor critical banking system metrics, ensuring data integrity and identifying performance bottlenecks.

CERTIFICATIONS

- [AWS Certified Developer Associate](#) (Validation number 95a0833c99454ef4bc2215c9155c96ab)
- [AWS Certified Cloud Practitioner](#) (Validation number: 84b9bc0b863440c1984aab8fa3ac0016)

ACADEMIC PROJECTS

Financial Forecasting for Port Authority:

Used OLAP, Excel, and Power BI to create financial projections and interactive dashboards, enhancing decision-making processes.

Multi-Cloud Migration:

Migrated an on-premises application to a multi-cloud setup using Terraform, integrating AWS S3 with GCP's GCR and GKE for COVID-19 reporting.

Sales Forecasting for Adidas:

Applied Random Forest and Gradient Boosting algorithms with R, Power BI, and R Shiny to enhance Adidas's sales strategies and inventory management.

EDUCATION

University of New Haven
M.Sc. Business Analytics

West Haven, CT (USA)
Jan 2021 - May 2024

Malla Reddy College of Engineering
B.E, Electrical Engineering

Hyderabad, India
Jun 2015-Jun 2018