

Umesh Narayanan

Lead Data Analysis- Cloud Data Engineer

PROFESSIONAL EXPERIENCE

UST Global - Schroder's Investment

Lead- Cloud Data Engineer

UK; London | Dec '21 - Present

Tools and Technology: - Snowflake, StreamSets, DataOps, ER-Studio, Databricks, AWS Glue, Azure Synapse, ADF, Step Function, Lambda, Spark, Oracle, Hive, Python, Core-Java, Scala, Git, Terraform, Docker, Snowpark, Kubernetes, Jenkin, Redshift, Semarchy-Master Data Management.

Domain: Investment Banking

Roles and responsibilities:

- Implemented a **Data warehouse ecosystem** using **Azure Synapse Workspace, SQL Pool, ADF, ADLS, Python, and Spark**
- Created Spark Jobs using **Data bricks, Python, and Pyspark** for data extraction, transformation, and aggregation.
- Create **Logical and Physical model**, define **data dictionary** using **ER-Studio DataArchitect**
- Configure and Test **Azure AD SSO** for **Snowflake**.
- Directed the migration of a large data set from **SQL to Snowflake** using **StreamSets, Snowflake, and Python**.
- Define **DAC** and **RBAC** privileges to roles in **snowflake**.
- Write **advanced data analytics function** using **spark-sql, Snowpark**
- Created snowflake **streams** for **Change Data Capture (CDC)** to track data changes from different sources.
- Create **data flow** and **reports** using **Power BI DAX**.
- Implemented **DataOps** platform using **StreamSets**
- Ensured efficient data processing and management through the use of advanced technologies.
- Create **Account Replication** and **Failover** features in Snowflake.
- Create pipeline for deploying docker based **streamset datacollector image**.
- Create **private end-point** in **AWS** that allows secure connectivity with **Snowflake VPC**.
- Write various normalization for job for new data ingested into Redshift.
- Write **unit test code** using **pytest** for integration and **module validation**
- Implemented best practices for **data security** and privacy to maintain data integrity
- Collaborated with cross-functional teams to ensure seamless integration of data sources and systems
- Designed and deployed **data models** to **Snowflake** using **DBT**
- Collaborated with Data Architects, domain experts, data analysts, and other teams to build foundational data sets and services.
- Manage **Data services roadmaps** in terms of both managing obsolescence and new technology leaps
- Create and deploy **data-ops pipeline** using azure devops
- Mentor team members on **new tools** and best **development practice**.

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SUMMARY

Technical Experience Summary: Highly effective and self-driven Data Engineering Consultant, Architect with expert level working knowledge on **Bigdata, ETL, Cloud Application Development**. Expertise in software development offering expertise in **Python, Spark, Scala, Core Java, SQL, No-Sql, OLTP, OLAP, Enterprise SaaS, AWS, Azure, StreamSets, and Snowflake**. Specialized on **Data Platform Solution Architecture, Data Warehouse and Data science platform** focused on building data driven culture across the enterprise. Sound knowledge on **Master Data Management, Machine Learning Concept, AI, Data Governance, GDPR**

KEY SKILLS

ADLS | Master Data Management(MDM)
Spark | Snowflake | Streamsets | Data Modelling | Azure- Synapsis | Kafka | Nifi | DBT | Dynamo DB| Kinesis | Databricks | Data Migration| Product Management | AWS Glue | Airflow | Redshift | S3 | AWS S3| Hadoop | Hive | Kafka | Zookeeper | API Gateway | Azure Data Factory | Bigdata | CSS | CI/CD | Data Governance | Data Strategy | Data Streaming | Data Vault | Data Visualization | OLAP | OLTP| Devops | Docker | Erwin | ETL | Github | HTML | Big Data Engineering | Jira | Core Java | Java | Javascript | Jenkins | Kubernetes | LINUX | Metadata Management | Microservices | Azure | Azure Devops | Microsoft SQL Server | MongoDB | Mongo DB | MySQL | No-Sql | Node.js |

- Automated data ingestion using **Snowpipe** from multiple sources, including **ADLS** and **S3**.
- Implemented **pattern-based ETL** and **ELT** pipeline using **StreamSets-Python_SDK**
- Implemented an orchestration process to ensure reliable and timely **data processing**.
- Created **stored procedures, temporary tables**, and **CTEs** for performance tuning
- Applied data masking policies as per **data governance policy**
- Translated business requirements into **technical requirements** for the Data Science team.
- Created clone objects to maintain **zero-copy cloning**.
- Architected **ETL** job using **AWS-Glue, Pyspark, Snowflake, Python**
- Created **data product** using **Glue job, Pyspark, snowflake API** from various **financial** data sources.
- Collaborated with **Product Managers and Architects** to define **data strategy** and **roadmap**.
- Managed **stakeholders** from a technical and non-technical domain.
- Configured resource monitor, **virtual warehouse** sizing, **zero copy cloning** and **time travel** for monitoring and performance optimization
- Defined roles and privileges required to access different database objects
- Implemented a **data ingestion framework** for seamless migration of data from Hadoop to Snowflake
- Translated business and system requirements into **conceptual and logical data models**
- Documented high-level data domain landscapes to provide a comprehensive understanding of data architecture.

UST Global: State Auto Insurance

Lead - Cloud Data Engineer Consultant

Hyderabad | Dec '20 - Dec '21

Tools and Technology - AWS-Kinesis, Lambda, Python, Glue, Pyspark, Dynamo DB, Athena, API Gateway, Jira, Git.

Domain: Insurance

Roles and responsibilities:

- Direct a team of **data engineers** on building **data product** and contributing to the data architecture of **digital analytics and real-time event sourcing**.
- Implemented a **live streaming** analytics solution using **AWS-Kinesis, Python, Dyanmo DB** and **Lambda** for 5 business transactional data sources.
- Guided the team in improving scalability, stability, accuracy, and efficiency of our data systems.
- Developed an **ETL framework** using **Python, API-Gateway, and Dynamo DB** to process complex and dynamic XML schema data sets from Guildware application.
- Engaged with stakeholders and converted their business requirements into **technical statements**.
- Developed and implemented an abstract layer for efficient **metadata management**.
- Contributes to the development of strategy and standards for data architecture and implementation
- Collaborates with team members to ensure successful implementation of **data architecture** and **analytics solutions**

OLAP | OLTP | | Oracle | Power BI |
Pyspark | Python | SQL | Stored
Procedures | Selenium | Shell Scripting |
SaaS | Star Schema | Unit Test
Automation | UNIX | Powershell | xml
schema

- Created and executed **unit test cases** to ensure **high-quality code** and functionality.
- Consulted building reliable **CICD** architecture using **AWS code pipeline** and **Github**.
- Successfully migrated on-premises data to Athena by utilizing **Glue-Pyspark**.
- Verified all deliverables with proper documentation and delivery checklist.
- Conducted BA and QA walkthroughs to ensure alignment with Business expectations and development.

HTC Global Services

Sr. Software Engineer

Chennai; Bangalore | Mar '20 - Nov '20

Sr. Application Support Engineer(Automation) 2020

Tools and Technology - AWS , Spark, Python, , Azure-Devops, Docker, Kafka, Kubernetes, Git

Roles and responsibilities:

- Implemented **live auditing analytical** platform from various internal sources
- The platform helps the organization to monitor malicious and anomaly activities
- Utilized **Kafka, Spark, Logstash, and Python** to design, develop, and implement the platform, ensuring seamless data processing and analysis.
- Applied **transformation techniques** on **semi and unstructured data sets** as per various business analytics case studies using **Spark API**.
- Implemented **Kafka producer and consumer** application on **Kafka cluster** setup with the help of **Zookeeper**.
- Developed a **Docker-based Spark** application to streamline the process of data streaming.
- Designed and implemented a **CI/CD** pipeline using **Azure DevOps** to deploy **microservices** applications to **AWS-ECS and EKS**.
- Created scalable **data management** and analytics procedures, systems, workflows, and best practices.
- Developed sound business communication by building relationships with other stakeholders
- Facilitated information sharing among stakeholders to improve **business communication**

Sr. Application Support Engineer(Automation Development)

Thomson Reuters

Roles and responsibilities:

- Developed **full stack** monitoring application using **AWS -Lambda, API-gateway, S3, Code pipeline** and **HTML, CSS, JavaScript, Python**
- The application helps the business to track the failover from multi regions
- Created and deployed log management **automation utilities** in various servers
- Used **powershell** and code pipeline to **automate tasks** and improve server efficiency
- Successfully implemented automated utilities to replace manual processes, resulting in increased efficiency and productivity.

- Collaborated closely with Product Managers to provide effective solutions for critical issues.
- Designed and implemented an automated solution **to detect application failures** and facilitate quick service recovery.
- Debugged production issues, performed root cause analysis and resolved them efficiently using **Datadog monitoring tool**.
- Worked closely with the development team to enhance product quality and ensure user acceptance.

L&T Technology Services

Sr. Engineer

Bangalore | Mar '17 - Jul '19

L&T Technology Services, Bangalore Client -CISCO Video Technologies(Now is Synamedia)
March 2017 to July 2019

Tools and Technology - Electric Commander, Python, Shellscript, Git

Roles and responsibilities:

- Developed **CICD pipelines** to deploy synamedia movie app to various mobile platform which include Android and IOS using Electric Commander, Shell and Git
- Works directly with development team, answers questions related to acceptance criteria and ensures that the work performed meets customer expectations
- Automated **ondemand pipelines** that replace manual process completely during the product delivery using **python, shell script**
- Successfully created and maintained automated CICD pipeline for code deployment using **Electric Commander** while automating the deployment process, resulting in the elimination of 70% of manual work and escalation of work efficiency.
- Working within an **Agile framework** to deliver product in fortnightly sprints, prioritizing the development team's work with Scrum.
- Monitor progression of releases and keep them on track for delivery on planned release date

Easoftech Solution

Sr.Test Engineer(Automation Consultant)

Bangalore | Sep '16 - Mar '17

Easoftech Solution, Bangalore Client -Internal Customer Service

Tools and Technology – Core Java, Selenium, Appium, Git

Roles and responsibilities:

- Preparing **ATM - Automation Traceability Matrix**, deciding the action plans for Test Scripts
- Implemented **Automation Framework** using **Core Java, Selenium, Appium**
- Defined detail knowledge of workflows to assist Product Manager in **product development**
- Consultant in designing user acceptance criteria for various **Mobile Banking** Process.
- Defined detailed knowledge of trading workflows to assist Product Manager in product development

QA Engineer

Bangalore | Jun '15 - Jul '16

Client -Internal Gaming Product

Tools and Technology – Core-Java, Selenium, Appium

Roles and responsibilities:

- Engaged with the development team to identify the user acceptance and improving the **quality of the product**
- Develop **automation test cases** to validate flow of various perk mobile product using **java,Appium,selenium**
- Work with our US Product Management team to break down features into a detailed **product backlog**.
- Defined detailed knowledge of trading workflows to assist Product Manager in product development
- Responsible for **product management** and business case development

Pass Technologies

Test Analyst

Bangalore | Jan '14 - Jun '15

Pass Technologies, Client -Cerner Jan 2014 to June 2015

Tools and Technology - HP-QC

Roles and responsibilities:

- Conduct Environment **Sanity testing**, build acceptance testing as build is deployed in to testing Environment
- Consultant in test data creation through **Cerner Millenium server** and execute test cases on devices such as **iPhone, iPod and iPad**.
- Conduct Re-Testing, **Regression Testing** and **Functional Testing** and updating track of test result in **HP-QC**
- Communicated with all areas of the company providing training and education for product releases.
- Coordinated with stakeholders in **project initiation, planning, execution**, and closing activities

EDUCATION

Bharathiyar University, Coimbatore, India

Master of Computer Application

Coimbatore | Nov '12

MISCELLANEOUS

- Collaborated with cross-functional teams including data architects, domain experts, data scientist and data analysts to develop and deliver high-quality solutions while ensuring proper documentation and delivery checklist verification.

Certification

- Successfully completed the Certified Scrum Product Owner (CSPO) certification
- ISTQB certified

Extra-Curricular Activities

Achieved 2nd medal in the national championship organized by Indian kalarippayattu(Ancient Indian Martial Art) federation.

Education :

Personal details

- Marital status: Married
- Date of birth: Feb 3, 1989