

Parikshith Thriyambaka

Boston MA | 857-832-0786 | parikshith.thriyambaka@gmail.com | [LinkedIn](#) | [Github](#)

Summary

Data Engineer with 3+ years of experience designing and optimizing scalable ETL pipelines, data modeling, and real-time data processing on AWS. Proficient in SQL, Python, and big data technologies, improving analytics performance and cost efficiency.

Experience

Analytics Engineer, Futurism Technologies (FinTech Services) - *Boston, MA* April 2024 – Present

- Designed 10+ **Redshift data marts** with optimized SQL queries and **dimensional data modeling**, leading to \$2,000 monthly cost savings and a 40% reduction in report query time.
- Developed ETL pipelines on AWS utilizing **Python**, **AWS RDS** (PostgreSQL), **SparkSQL**, and **Lambda**, that reduced financial risk report errors by 40%, enhancing decision-making accuracy in compliance with SOX internal controls
- Streamlined project timelines using agile methodologies, automating 15+ workflows with **Airflow DAGs** and building interactive **QuickSight** dashboards, reducing financial risk assessment time by 20 hours per week
- Achieved 95% code coverage across **data pipelines** through rigorous testing (**integration, unit, regression**) using **Pytest**, ensuring data reliability and compliance with internal controls over financial reporting

Data Engineer II, HSBC Financial Services - *Bengaluru, KA* July 2021 – Aug 2022

- Architected and optimized scalable **ETL pipelines** (Glue, Redshift, S3) for 10TB REST API data, improving data ingestion speed by 30% and reducing operational costs by \$10,000 annually
- Developed ML-driven **anomaly detection pipelines** using **Lambda**, **InfluxDB**, and **Python Scripts**, analyzing time-series transaction data to detect fraudulent activity, reducing risk exposure by 83+ cases per month
- Led **CI/CD automation** for ETL deployments using **Airflow**, **Terraform**, **Docker**, and **Jenkins**, reducing release time from 5 hours to 30 minutes and improving deployment reliability.
- Optimized **OLAP query performance** by collaborating with data scientists, utilizing **dimensional modeling, partitioning, and clustering**, reducing average query times by 10 minutes, and accelerating critical data retrieval

AWS Data Engineer, Digital API Craft (Khan Bank Business Intelligence Team) - *Bengaluru, KA* May 2020 – June 2021

- Built ML-ready streaming data pipelines using AWS Kinesis and Kafka, processing 2M+ messages/day, enabling real-time fraud detection and **customer behavior analytics**
- Optimized data processing efficiency through by implementing advanced data structures in **PySpark** and object-oriented programming, resulting in 50 GB decrease in resource utilization, thereby enabling faster response times for analysis
- Integrated **Prometheus** and **Grafana** for comprehensive **monitoring** and **observability** of pipelines, which improved real-time system performance insights and reduced pipeline disruptions by 15 hours monthly

Data Engineer Intern, Microsoft (Retail & Ecommerce Team) - *Bengaluru, KA* Jan 2019 – June 2019

- Spearheaded the migration of legacy data storage from **PostgreSQL** to **Azure Data Lake Storage**, achieving a seamless transition with downtime reduced from 10 minutes to 3 seconds, ensuring uninterrupted data access
- Orchestrated the end-to-end delivery of a customer 360 data platform, consolidating data from 10 source systems, including **MongoDB** and **REST APIs**, using **Azure Data Factory** and **Databricks**, providing actionable insights to 500+ users

Skills & Certifications

Programming Languages: Python (NumPy, Pandas, Tensorflow, Scikit-Learn), SQL, Scala, JAVA, R, C, Javascript (ReactJS)

Databases and Data Warehouses : MySQL, PostgreSQL, MongoDB, DynamoDB, Redshift, Big Query

BI Tools & Data Visualization: Fivetran, Informatica, dbt, Tableau, PowerBI, Apache Superset, Looker Studio

Cloud Technologies: GCP (Dataflow, Dataproc, Bigquery, EMR) , AWS (Glue, S3, Athena, Lambda, Redshift), Kubernetes

Certifications: GCP Certified Professional Data Engineer, AWS Certified Data Analytics

Education

Northeastern University - *Boston, MA* Sep 2022 - April 2024

MS in Data Analytics Engineering | Graduate Teaching Assistant | Graduate Ambassador

GPA: 4.0/4.0

SVIT - *Bengaluru, KA*

Aug 2016 - Sep 2020

BS in Computer Science and Engineering | Best Outgoing Project | Research Assistant

GPA: 3.7/4.0