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|  | **Bharadwaj Bairi** |

Decatur, GA, USA | [bharadwajbairi3@gmail.com](mailto:bharadwajbairi3@gmail.com) | +1-660-528-8192

[linkedin.com/in/bharadwajbairi](https://www.linkedin.com/in/bharadwajbairi/) | [github.com/bharadwajbairi3](https://github.com/bharadwajbairi3)

# **Summary**

AWS & Snowflake Certified Data Engineer with 3+ years of experience designing and implementing scalable cloud-native data pipelines on AWS and GCP. Proven ability to deliver ETL workflows that improved ingestion speeds by up to 67% and reduced compute costs by 25%. Proficient in Python, SQL, Spark, Airflow, and streaming technologies like Kinesis and Kafka, committed to building cost-efficient data solutions that drive business insights.

# **Work Experience**

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| **Data Engineer | Cloud-Native ETL & Streaming Pipelines** | **Jan 2025 - Present** |
| *SAAS Tech, NJ, USA* |
| * Designed and optimized ETL pipelines using AWS Glue, Apache Spark, and Hive, improving processing efficiency by 30% through Glue-Spark integration and partition pruning. * Automated MySQL-to-S3 and S3-to-Snowflake ingestion workflows using Airflow and Lambda, reducing sync time by 2x and ensuring fault-tolerant scheduling. * Built real-time streaming pipelines with AWS Kinesis, Kafka, and Lambda, reducing data lag by 40%, and optimized cold storage using S3 lifecycle policies. | |
| **Data Engineer | Enterprise Data Migration & Automation** | **May 2022 - Dec 2023** |
| *Mayo Clinic, Hyderabad, India* |
| * Built 20+ ETL pipelines using Python and Airflow, processing data from 5-6 sources to improve data integrity by 30% and increase conversion rates by 16%. * Migrated legacy systems from Oracle and SQL to BigQuery and Amazon Redshift, resulting in annual savings of $678K, utilizing Lambda, S3, and Glue triggers. * Processed 10 TB of daily data with Python and AWS Glue, improving ingestion speed by 67%, and integrated AWS Data Pipeline and GCP Data Proc for Spark job orchestration. | |
| **Junior Data Analyst﻿ Intern | SQL-Driven Reporting & Cleansing** | **Mar 2021 - Mar 2022** |
| *Vak Tech INC﻿, Hyderabad, India﻿* |
| * Facilitated data cleaning and analysis using SQL and Excel to ensure data accuracy and integrity. * Delivered comprehensive reports and summaries which improved team task efficiency by 15%. * Formulated SQL queries that streamlined the extraction process, reducing data retrieval time by 30%. | |

# **Projects**

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| **AWS Serverless Student Data Pipeline** | **Jul 2025** |
| * Designed and implemented a scalable AWS serverless data pipeline for real-time and batch processing of simulated student academic data (up to 100,000 records daily) using DynamoDB, Lambda, Glue, and Athena. | |
| **Spotify ETL: AWS Music Metadata Pipeline** | **Jun 2025** |
| * Developed a serverless AWS ETL pipeline to integrate 3 distinct music metadata datasets, leveraging Glue for Parquet conversion (reducing storage by 70%) and QuickSight for 5 interactive dashboards. | |

# **Skills**

* **Programming**: Python, SQL, PySpark, NoSQL
* **Databases & Warehousing**: Snowflake, Amazon Redshift, BigQuery, PostgreSQL, Relational Databases﻿
* **Cloud Platforms**: AWS (S3, Glue, Lambda, Kinesis, EMR, Athena, Lakeformation, CloudWatch), GCP (BigQuery, Cloud Composer, GCS)
* **Data Orchestration & Streaming**: Apache Kafka, Apache Airflow, Spark Streaming, AWS Stepfunctions﻿
* **Containerization**: Kubernetes, Docker
* **Reporting & Visualization**: Amazon QuickSight, Tableau, SQL-Based Dashboards, BigQuery Materialized Views
* **Version Control & CI/CD**: Git, Jenkins
* **Development Methodologies**: Agile, Scrum

# **Education**

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| **Master of Science: Information Systems** | **Jan 2024 - May 2025** |
| *Northwest Missouri State University, Missouri﻿* |  |
| **Bachelor of Engineering: Civil Engineering﻿** | **Jun 2018 - Mar 2022** |
| *Jawaharlal Nehru Technological University Hyderabad, Telangana﻿* |  |

# **Certifications**

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| **AWS Certified Data Engineer Associate** - [Verify](https://www.credly.com/badges/4f977cd7-f3c4-4b59-a581-101bd4f4d710/linked_in_profile) | **Jul 2025** |
| **Snowflake SnowPro Core Certification﻿** - [Verify](https://achieve.snowflake.com/d74cbabb-6f53-4dff-be2d-26622c681cdb#acc.cYfzsTV8) | **Jul 2025** |