

Shanmukha Bhargav Bhamidipati

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SUMMARY

Software & Data Engineer with 3+ years of experience building scalable backend systems, cloud data pipelines, and analytics-ready datasets. Proficient in Python, Java, C#, SQL, AWS, Snowflake, REST APIs, and microservices. Experienced in translating business requirements into production-ready technical solutions, implementing ETL workflows, and designing fact/dimension tables with star and snowflake schemas. Collaborative team player adept at cross-functional projects and stakeholder communication, with a Master's in Computer Science (AI minor).

SKILLS

- **Languages:** Python, Java, C#, SQL, R, JavaScript
- **Databases:** MySQL, PostgreSQL, MS SQL, MongoDB, Snowflake (SQL & NoSQL, Cloud Data Warehousing)
- **Frameworks & Tools:** .NET Core, Spring Boot, React, Angular, REST APIs, Microservices, Kubernetes, Docker, Jenkins
- **Cloud & Platforms:** AWS, Azure, Salesforce, Snowflake, Git/GitHub
- **Data & ML:** Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, PyTorch, TensorFlow, Keras
- **Data Engineering & Warehousing:** Data Modeling, Fact Tables, Dimension Tables, Star & Snowflake Schema, Data Migrations, Data Validation, Workflow Analysis, ETL pipelines
- **Other:** Power BI, Bash scripting, Production Deployment, Testing & Validation, Client-facing Communication, Compliance & Data Security Awareness

EXPERIENCE

Data Engineer – Community Dreams Foundation (CDF) September 2025 – Present

- Designed and implemented AWS-based data pipelines, Snowflake data warehouses, and data lakes supporting scalable operational workflows.
- Built fact and dimension tables using star & snowflake schemas; optimized transformations for analytics-ready datasets.
- Integrated multiple internal and external systems, improving data reliability, system scalability, and reporting accuracy.
- Developed SQL and Snowflake transformations with validation logic, reducing manual data errors by 25%.
- Collaborated with product managers and stakeholders to translate business requirements into production-ready solutions.

IT / Data Management Intern - H.U.G Reading Program February 2025 – August 2025

- Maintained cloud-based data pipelines using AWS (Lambda, S3, EC2) and Snowflake, enhancing compliance, auditability, and data quality.
- Conducted data profiling and developed Power BI dashboards for operational decision-making.
- Documented functional and technical requirements to streamline workflow configurations and troubleshooting processes.

Associate Software Engineer - Hexaware Technologies February 2021 – September 2023

- Developed and maintained custom solutions in C#, .NET Core, Java, SQL, and Snowflake, supporting enterprise healthcare & financial systems.
- Engineered REST APIs, microservices, and backend calculations, improving system performance and scalability.
- Optimized SQL queries and Snowflake data models for high-volume transactional and reporting systems, reducing runtime by 30%.
- Participated in Agile/Scrum ceremonies, supporting UAT, production deployment, and post-deployment client satisfaction.

PROJECTS

Ravenstack Analytics Platform | Data Engineer (dbt / Databricks)

- Designed a full end-to-end SaaS analytics pipeline using dbt Core on Databricks with Bronze–Silver–Gold architecture for subscription, churn, usage, and support ticket datasets.
- Built fact/dimension tables with star schema modeling, including incremental loads, SCD Type-2 snapshots, macro-driven transformations, and comprehensive data quality tests.
- Delivered analytics-ready, lineage-documented datasets enabling accurate downstream BI dashboards, KPI tracking, and business reporting.

NYC Taxi Data Analytics Platform | Data Engineer (Azure)

- Developed an Azure-based data pipeline using Data Factory, ADLS Gen2, and Databricks to ingest and process large-scale NYC Taxi Parquet datasets using Bronze–Silver–Gold layers.
- Engineered PySpark and SQL Delta Lake transformations ensuring ACID compliance, partition optimization, and high-performance analytical querying.
- Integrated Gold-layer Delta tables with Power BI dashboards to support visualization of revenue, ridership trends, and operational metrics.

Real-Time Dubbing Enhancement with Wav2Lip – Machine Learning Engineer | Team of 3

- Built real-time dubbing pipelines with Python and PyTorch using Wav2Lip, improving lip-sync accuracy by 35% through model optimization and audio–video alignment tuning.
- Containerized the ML workflow using Docker and integrated Snowflake logging for model inference metrics, latency tracking, and system reliability monitoring.
- Created dashboards to visualize model performance, pipeline throughput, error trends, and real-time synchronization results.

Internal Application Performance Optimization – Full Stack Developer | Team of 6

- Optimized backend microservices and SQL queries, improving system response times by 40% through query refactoring, indexing strategies, and service-level redesign.
- Built CI/CD pipelines using Docker, Kubernetes, and Jenkins to automate deployments, enhance reliability, and streamline release cycles.
- Developed Power BI dashboards to provide engineering teams with insights into application performance, service latency, and system bottlenecks.

EDUCATION

Florida Atlantic University– Boca Raton, FL

May 2025

Master's in Computer Science, Minor in Artificial Intelligence, GPA: 3.86

- Relevant coursework: Introduction to Data Science, Software Engineering, Analysis of Algorithms, Natural Language Processing, Information Retrieval, Artificial Intelligence, Data Mining and Machine Learning, CodePath Intermediate Data Structures, Cloud Computing, Cloud Security.

CERTIFICATIONS

- Microsoft Azure Fundamentals, AZ-900 February 2023
- Amazon AWS Cloud Practitioner October 2025
- Amazon AWS AI Practitioner October 2025