

# Shriyansh Singh

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## SUMMARY

Data Engineer with 2+ years of experience building reliable pipelines using **Python**, **SQL**, **Airflow**, and **Snowflake**. Specialized in infrastructure-as-code, data quality automation, role-based security, and monitoring data platforms.

## PROFESSIONAL EXPERIENCE

### Data Platform Engineer

April 2024 - Dec 2024

*Hyphenova AI*

*Los Angeles, CA*

- **Architected** high-performance data pipelines using **Airflow** and **dbt** that processed 5TB of daily data with 99.7% reliability, resolving critical data flow issues
- **Pioneered** infrastructure-as-code solutions with **Terraform** that automated platform deployments, slashing provisioning time from days to hours
- **Engineered** modular **Python** utilities for standardized data validation, decreasing quality anomalies by 68% across production environments
- **Spearheaded** development of comprehensive **DataDog** monitoring dashboards that prevented customer-impacting incidents through proactive alerts

### Data Engineering Associate

May 2022 - Oct 2022

*Enterprise Business Technologies Pvt Ltd*

*Mumbai, India*

- **Transformed** source data into optimized dimensional models using advanced **SQL** and **Python** ETL processes, boosting query performance by 45%
- **Streamlined** deployment workflows by implementing CI/CD pipelines with **Git** and **CircleCI**, automating testing of transformation code
- **Established** comprehensive data catalogs and documentation systems that enhanced cross-team data discovery and asset utilization
- **Formulated** technical specifications from ambiguous business requirements, creating clear JIRA tickets with defined acceptance criteria

## PROJECTS

### Enterprise Data Platform Migration | *Snowflake, dbt, Airflow, Terraform, AWS*

Jan 2024 – Apr 2024

- **Spearheaded** modernization of legacy data warehouse to **Snowflake**, implementing multi-layer architecture with bronze, silver, and gold data zones
- **Instituted** continuous integration workflows with **dbt** tests that achieved 92% test coverage across transformation logic, ensuring reliable deployments
- **Constructed** detailed runbooks and architecture diagrams in Confluence that accelerated knowledge transfer, reducing team onboarding time by 60%

### Real-time Data Pipeline Architecture | *AWS, Python, Kafka, Terraform, Datadog*

Sep 2023 – Dec 2023

- **Innovated** scalable streaming architecture using **Kafka** and **AWS Lambda** that efficiently processed 10,000+ events per second during peak loads
- **Devised** modular infrastructure-as-code using **Terraform** that ensured consistent environment deployment across development and production
- **Crafted** comprehensive observability framework with **Datadog** that proactively tracked KPIs and system health metrics, enabling early issue detection

## SKILLS & CERTIFICATIONS

**Programming:** Python, SQL, Shell Scripting, YAML, JSON

**Data Orchestration:** Airflow, dbt, Dagster, Apache NiFi

**Cloud & Databases:** Snowflake, AWS (S3, Redshift, Lambda), Postgres, MySQL

**Infrastructure:** Terraform, Docker, Kubernetes, CircleCI, GitHub Actions

**Monitoring:** DataDog, Prometheus, Grafana, AWS CloudWatch

**Tools:** Git, JIRA, Confluence, VS Code, DBeaver

## EDUCATION

### Indiana University Bloomington

Aug 2023 – May 2025

*Master of Science in Data Science*

*Indiana, United States*

- Relevant Coursework: Data Engineering, Cloud Computing, Database Systems, ETL Design, Data Warehousing
- GPA: 3.8/4.0