

# Jyothi Sevakula

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## EDUCATION

### Virginia Tech

Master of Engineering in Computer Science

Blacksburg, VA

GPA: 4.0 | Dec 2025

## SKILLS

**Programming & Data:** Python, SQL, Java, PySpark

**Data Engineering & Analytics:** ETL/ELT, Data Modeling, Dimensional Modeling, Funnel & Statistical Analysis

**Frameworks & Tools:** Apache Spark, Kafka, Flink, NiFi, Airflow, Dagster, dbt

**Cloud & Warehousing:** Snowflake, Redshift, BigQuery, Databricks, AWS (S3, Glue, EMR, Kinesis, Lambda, IAM), GCP

**Visualization & Reporting:** Tableau, QuickSight

**GenAI & Advanced Systems:** VectorDBs, MCP Servers, Retrieval-Augmented Generation (RAG)

**Certifications:** Snowflake SnowPro Core Certified, Google Cloud Certified Professional Data Engineer, AWS Solutions Architect Associate, Tableau Desktop Specialist, Astronomer Certification DAG Authoring for Apache Airflow 3

## PROFESSIONAL EXPERIENCE

### Castleton Commodities International | Data Engineering Intern

Stamford, CT, USA May 2025- Aug 2025

- Built and deployed end-to-end Snowflake pipelines using Cortex AI embedding similarity and SCD Type-2 logic, achieving 98% entity match accuracy across 50K+ vendor records.
- Engineered a modular 6-stage Dagster pipeline and integrated SnapLogic ingestion, cutting vendor onboarding time by 40% and reducing latency by 30%.
- Developed a Streamlit interface for lineage tracking and automated SQL transformations, reducing QA effort by 75%.

### Virginia Tech | AWS & Data Visualization Teaching Assistant

Alexandria, VT, USA Sept 2024 – Present

- Guided 200+ students through cloud-based projects including deploying a full-stack e-commerce system on AWS EC2, VPC, and NAT gateways with MySQL backend, ensuring secure and scalable architecture.
- Built hashtag analysis pipeline on EMR with S3 data, improving cluster utilization using twitter dataset.
- Developed RESTful API endpoints with AWS Lambda API Gateway, and RDS for a book catalog system.
- Delivered hands-on sessions on data visualization best practices, teaching students how to build dashboards with Tableau and demonstrated effective storytelling techniques to help them translate dashboards into compelling business insights.

### Micron Technology | Data Engineer

Hyderabad, India Aug 2022 – Jan 2024

- Automated ingestion and transformation of 30TB+ daily data from Snowflake to BigQuery with Dataproc, reducing manual effort by 90% and compute costs by 40%.
- Developed real-time alerting with GCP Cloud Functions, Pub/Sub, and Log Explorer, auto-generating incident tickets and driving 80% monitoring cost savings.
- Built real-time NiFi streaming pipelines for 10M+ records/day with Splunk integration and optimized BigQuery DAGs, cutting downtime by 50% and improving efficiency by 35%

### Micron Technology | Big Data Engineer Intern

Hyderabad, India May 2021-Jul 2021

- Developed 90+ Api's fetching from Snowflake and built proactive alerting for BigQuery jobs, improving reliability.

## PROJECTS

### Virtual Teaching Assistant

- Built an AI-powered Virtual TA that transcribes Zoom lectures, summarizes them using AWS Bedrock, and enables context-aware Q&A through a Fast API and AWS Lambda backend integrated with an S3 Vector Store, reducing manual note-taking time by 90%.

### AWS Resource Automation

- Developed Python scripts using Boto3 to automate EC2 provisioning, IAM role updates, and S3 lifecycle management, reducing cloud setup time by 80%.

### expOS – Experimental Operating System

- Developed a simplified UNIX-like OS kernel in C implementing process scheduling, memory management, and system calls on Linux, strengthening debugging and OS fundamentals.

## AWARDS & HONORS

**Dec 2022 Micron “Go-Getter”:** Recognized for accelerating critical project delivery that enabled uninterrupted business operations and achieved an estimated \$80K+ in annual cost savings.

**Member, National Society of Leadership and Success (NSLS):** Recognized for academic excellence and leadership potential; selected among the top 1% of Virginia Tech students