

# JYOTHI SEVAKULA

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## EDUCATION

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### Virginia Tech

Masters in Computer Science

Courses: Cloud Computing, Web Application Development, Intro to Artificial Intelligence

Jan 2024 — Dec 2025

GPA — 4.0/4.0

### National Institute of Technology Calicut

Bachelors in Computer Science & Engineering

Courses: Data Structure & Algorithms, Object Oriented Programming, Database Management Systems, Operating Systems

Aug 2018 — May 2022

GPA — 3.8/4.0

## WORK EXPERIENCE

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### Micron Technology, Data Engineer, Data / Smart Manufacturing and Artificial Intelligence Team (SMAI)

Jun 2023 — Jan 2024

- Implemented a complete end-to-end robust, reusable and scalable workflow to detect job failures, monitor data latency and generate incident tickets for pipeline management team using GCP Cloud Function, Pub/Sub, Log Explorer, Big Query Scheduler, achieving 80% cost savings and ensured prompt alerts.
- Architected a near real-time streaming pipeline in NiFi to seamlessly ingest data into Big Query, leveraging Splunk for robust monitoring and alerting functionalities. Regular publication of metrics every 5 minutes facilitated meticulous tracing of row count and latency, guaranteeing swift alerts and optimal pipeline efficiency.
- Designed an automated workflow to ingest 30TB of raw data daily from Snowflake to Big Query using a Dataproc YAML Job to create a PySpark Cluster. Scheduled the Job with Cron Scheduler and implemented auto-termination of the cluster, reducing manual data inserts by 80% and optimizing costs.

### Micron Technology, Associate Data Engineer, Data / Smart Manufacturing and Artificial Intelligence Team (SMAI).

Aug 2022 — Jun 2023

- Automated the workflow of shortlisting critical items under supply chain to identify top 10 critical wafers and built a model to forecast Pull-In/PO Purchase Order using Random forest Classifier and matplotlib, achieving 40% manual hours.
- Optimized SQL queries and Airflow DAG with parallel execution which lowered execution time by 35% for data pipelines
- Implemented a proactive email alerting system, designed to promptly notify stakeholders of any production errors in Big Query Jobs

### Micron Technology, Big Data Engineer Intern / Planning and Operations Team.

May 2021 — Jul 2021

- Built an Alexa Skill in Python SDK that integrated with Zomato and TripAdvisor APIs to recommend highly rated tourist attractions and restaurants; deployed on AWS Lambda
- Developed 90+ Api's fetching from Snowflake and deployed application on Openshift

## ACADEMIC PROJECTS

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### Integrated Web Solutions for BookStore Operations [\[link\]](#) | Javascript, React, Angular libraries, HTML, CSS, MySQL

- Developed a dynamic and responsive bookstore web site using Front- End technologies using such as Javascript, React, Angular libraries, HTML, CSS. Utilized Java and Node.js on the Backend to establish robust server-side logic, integrating a MySQL database for secure management of inventory, customer details, and transactions. Implemented RESTful APIs to facilitate seamless communication between front-end and backend systems, enhancing overall functionality and user experience

### Optimizing Web Application Deployment on AWS Cloud [\[link\]](#) | VPC, EC2, S3, RDS, Lambda, API Gateway, SAM CLI

- Designed and implemented AWS cloud architecture for web hosting, optimizing resource utilization by 40% and achieving 99.99% uptime. Utilized AWS best practices outlined in the [whitepaper](#), incorporating scalable solutions for high availability and fault tolerance using AWS services such as EC2, S3, and RDS, ensuring secure and efficient web hosting infrastructure. Developed AWS Lambda functions with Amazon API Gateway for REST API endpoints

## SKILLS & CERTIFICATIONS

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### Languages & Libraries:

Python, JAVA, JavaScript, React, OOPS, SQL, Pandas, NumPy, Shell Scripting, Keras, Scikit-Learn

### Technologies :

GCP, AWS, Apache NIFI, Airflow, Snowflake, Hadoop, Hive, PySpark, Kafka, GIT, Tableau

### Certifications :

Google Cloud Professional Data Engineer, AWS Cloud Solution Architect Associate

## AWARDS & HONORS

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**Aug 2023 Micron "Go-Getter":** Accelerated project delivery to enable business, best performer recognized by 14 business analysts.