

Vijaykumar Saravanan

Linkedin

Email : vijaysaran0707@gmail.com

Mobile : +91 7200041019

EDUCATION

- **SRM Easwari Engineering College** Chennai, India
Information Technology; CGPA: 8.8 *Aug. 2019 – May. 2023*

EXPERIENCE

- **Ingram Micro** Chennai, India
Senior Data Engineer *2023 – Present*
Data Platform and Engineering
 - **ETL/ELT Pipelines:** Designed and operated **5+ scalable ETL/ELT pipelines** using Python, Java, PostgreSQL, and GCP, processing **billions of records per month**.
 - **Data Quality & Onboarding:** Built onboarding and data quality frameworks enabling **3× faster onboarding** and delivering **99%+ accuracy**.
 - **Observability & Uptime:** Developed **10+ observability dashboards** and Datadog alerts, improving uptime **35%** and reducing MTTR **40%**.
 - **Product Categorization Engine:** Enhanced the **Product Ingestion Engine (PIE)** by implementing **hybrid search** for product categorization and building a UI tool for cluster sampling and **human-in-the-loop** index training.
 - **AI Agent Development:** Developed an AI agent for **automated data pipeline testing and validation** using Google ADK, FastAPI, and React, reducing manual verification effort and improving pipeline reliability.
 - **LLM Based Product Categorization Tool:** Built an **LLM-powered Product Categorization system** using Vertex AI, FastAPI and PostgreSQL, reducing manual effort by **60%**.
 - **Cloud Optimization:** Optimized infrastructure across Dataflow, BigQuery, Pub/Sub, Cloud Run, and GKE achieving **25% cost reduction** and **2× faster queries**.
 - **Automation:** Automated **50%+** operational workflows using Python, Bash and CI/CD, increasing platform efficiency.
 - **Real-Time Data Quality:** Implemented streaming data quality checks reducing downstream issues by **40%**.
 - **Technical Leadership:** Served as **Technical Point of Contact** for cross-functional engineering, analytics, and product initiatives.

Data SRE

- **GCP Infrastructure:** Provisioned **80% of GCP infrastructure** with Terraform enabling secure and scalable deployments.
- **Automation:** Automated on-boarding workflows using Python saving **60% engineering hours per quarter**.
- **Observability:** Built **10+ Datadog dashboards** and improved alerting reducing incident response time by **40%**.
- **SLA & Reliability:** Improved data on-boarding with **75%+ SLA compliance** and reduced recurring issues by **30%** through RCA.

Global Data Warehousing

- **Cloud Migration:** Migrated enterprise **DWH & ETL pipelines from AWS to GCP** (Cloud Composer, BigQuery) with **99.9% availability**.
- **Airflow Optimization:** Boosted Airflow DAG reliability by **30%** and reduced runtime **25%** via dependency tuning and parallelization.

SKILLS

- **Programming Languages:** Python, SQL, Java, JavaScript
- **Data Engineering:** Airflow, BigQuery, Dataflow, Apache NiFi, Pub/Sub, DuckDB, Apache Spark, Databricks
- **Cloud:** GCP, AWS

- **Databases:** PostgreSQL, Oracle, Elasticsearch
- **APIs & App Frameworks:** Flask, FastAPI, Node.js, Streamlit
- **DevOps & Automation:** Docker, Kubernetes, Git, Terraform, Datadog, GitHub Actions, Bitbucket
- **AI/ML:** LLM, Vector Databases, Vertex AI, Google ADK, Langraph, Machine Learning, Prompt Engineering, MLFlow

CERTIFICATIONS

- **Google Cloud Certified – Professional Data Engineer**
Badge *Dec 2025*
- **Google Cloud Certified – Associate Cloud Engineer**
Badge *Nov 2024*

AWARDS

- **Rock Star Award — Ingram Micro** *Feb 2026*
Recognized for end-to-end development of a Product Categorization Engine, contributing across backend architecture, front end dashboards, LLM-based classification, and deployment reliability
- **Rock Star Award — Ingram Micro** *July 2024*
Received for significant contributions to observability solutions and automation, improving system monitoring, performance insights, and operational efficiency.