# VAISAKH KUSABHADRAN 805-295-0865

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**Data Engineer** with 7+ years of experience designing and maintaining scalable, high-performance data pipelines and ETL workflows using Python, Airflow, and AWS. Proven success in modernizing data infrastructure, building distributed systems, and improving data quality across microservice-based architectures. Experienced with Kafka, Redshift, PostgreSQL, and Snowflake. Strong collaborator with both engineering and business teams, driving data reliability, availability, and actionable insights.

**EXPERIENCE**

**Clover Networks**, San Jose, CA - **Data Engineer**   **Feb 2024 - Present**

Data engineer responsible for migrating existing legacy data pipelines to new frameworks.

* Built scalable data pipelines to ingest and transform high-volume merchant data into a centralized data warehouse, enabling faster analytics.
* Developed a **Java Spring Boot** application for automating lifecycle management of data pipelines reducing the average time spent on pipeline maintenance from **20 minutes to 8 minutes.**
* Improved stability of **Kafka pipelines** by addressing critical technical debt in sink connectors failure handling, resulting in a **60% reduction in pipeline restarts** and smoother production operations.
* Designed and migrated legacy ETL workflows to GCP-native frameworks using Airflow, and Snowflake, improving data availability and **reducing downtime by 60%.**

**Flipt**, Jersey City, NJ - **Data Engineer**  **Apr 2022 - Dec 2023**

Data engineer responsible for migration of claim adjudication data in pharmacy benefit management systems.

* Developed **REST** endpoints in **Flask** that handles ~2K requests for automated treatment authorization using Python and RabbitMQ **reducing manual intervention from 2 hours to 10 minutes.**
* Implemented asynchronous modules in Python for optimizing database calls and http requests which **reduced service response time by** **27% and improved CPU usage by 14%.**
* Engineered fault-tolerant **data pipelines** using **Python, NoSQL** and **Airflow** to process over 50K daily PHI records from SFTP to AWS S3, enhancing compliance and data integrity.
* Orchestrated complex **ETL workflows** in the pharmaceutical insurance domain, proactively adopting industry best practices for scalable pipeline scheduling and staying current with emerging trends.

**Alpine Electronics**, SJ, CA - **ML Engineer**  **Feb 2022 - Apr 2022**

Member of machine learning team responsible for improving the model's ability to generalize unseen gaze patterns and environmental conditions.

* Enhanced feature extraction using multiple image processing techniques in OpenCV like histogram equalization and image segmentation, **boosting the model accuracy by 9%.**

**Iqvia,** Bangalore, India - **Sr.Software Engineer Feb 2019 - Aug 2019**

Contributor to the system migration team involved in transitioning legacy Mainframe code to Python scripts.

* Transformed medical sales data in MySQL DB to delimited files by incorporating SQL queries into Python scripts, resulting in a **40% reduction in client specific report generation time.**
* Migrated legacy JCL batch procedures for pharmaceutical sales reporting to **Python** scripts with MySQL on a client-server architecture, resulting in a **25% improvement in data loading speed** and enhanced maintainability.
* Collaborated with DevOps teams to implement **CI/CD pipelines using Jenkins**, automating testing, deployment, and monitoring processes for a SaaS application, which streamlined release cycles and improved deployment reliability.

**Wipro,** Bangalore, India - **Software Engineer**   **Jun 2015 - Feb 2019**

Built Mainframe/Python applications for client engagement teams within the life insurance industry.

* Revamped health check activities including server readiness assessment, job failure alert reports and ticket assignments by creating Python modules which saved **1** **hour** per day for the team.
* Achieved **40% increase in data retrieval** speed by optimizing DB2 queries using JCL, COBOL, DB2 which led to reduction in daily and monthly **batch processing duration by 40% and 30%** respectively.
* Collaborated closely with product managers and cross-functional teams in the health insurance domain**,** effectively managing project timelines, driving stakeholder alignment, and ensuring successful feature delivery.

**EDUCATION**

**MS in Data Science** University of the Cumberlands, KentuckyJan 2025 - Expected May 2026

**MS in Computer Science** San Francisco State University, California Dec 2021, GPA 3.73

**B.Tech in Computer Science** Amrita University, IndiaMay 2015

**SKILLS**

**Languages** Python, Java, SQL, C++

**Data Engineering** Airflow, Kafka, Flink, Spark, Hive, Presto, Redshift, Snowflake, PostgreSQL, MySQL

**Cloud Platforms** AWS (S3, Lambda, Redshift, EC2), GCP (BigQuery, Dataflow)

**ETL Tools** Apache Airflow, Flink, Oozie, Azkaban

**CI/CD** Jenkins, Docker, Kubernetes, Git

**Reporting** Looker, Tableau, Superset, Prometheus

**Methodologies** Agile, Scrum, TDD

**Soft** **Skills** Cross-functional collaboration, Stakeholder communication, Strategic thinking