

# Mohamed Hussain Shahul Hameed

Chennai, India | [LinkedIn](#) | [Portfolio](#) | [GitHub](#) | [+91 77088 67386](tel:+917708867386)

## TECHNICAL SKILLS

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**Languages:** Go (Golang) | Python | SQL | Bash

**Tools & Technologies:** ClickHouse | PostgreSQL | MySQL | Trino | Apache Airflow | Docker | Kubernetes | Git & GitHub | VS Code | Linux OS

## EDUCATION

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**Rajalakshmi Engineering College**

*BE Computer Science Engineering*

**Chennai, India**

*Graduation Date: May 2025*

**International Indian School**

*High School (11<sup>th</sup> and 12<sup>th</sup> Grade)*

**Jeddah, Saudi Arabia**

*Graduation Date: May 2021*

## EXPERIENCE

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**Associate Data Engineer**

Quantrail Data Pvt Ltd | Chennai, Tamil Nadu, India.

**Jan 2025 - Present**

- Contributed to migrating data infrastructure from Elasticsearch and HDFS to ClickHouse.
- Built Airflow pipelines to ingest and validate data from MinIO, Kafka, Azure Blob Storage, and PostgreSQL.
- Developed Python + Trino scripts to load data into Hive and further ingest curated datasets into ClickHouse.
- Designed table schemas from API outputs and created required Hive staging tables for downstream analytics.
- Contributed to building scalable ingestion workflows and reusable scripts used across multiple data domains and pipeline components.

## HACKATHONS

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**TechQuest – 24-Hour Hackathon**

**Team Leader**

**St. Joseph's University, Bangalore | Apr 2024**

- Led a 3-member team through a fast-paced build cycle, prioritizing MVP completion and time management.
- Took charge of backend integration, team coordination, and deployment of a working medical reminder solution.
- Strengthened leadership and real-time problem-solving skills under pressure.

**HackOverflow V3.0 – 24-Hour Hackathon**

**Team Member**

**Rajalakshmi Engineering College, Chennai | Nov 2023**

- Collaborated in a diverse team to create a student productivity platform under tight deadlines.
- Focused on implementing calendar features and optimizing UX with rapid feedback loops.
- Gained hands-on experience working in a collaborative, high-stakes environment.

## PROJECTS

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**Kafka → ClickHouse Real-Time Data Pipeline**

Mini Project | Quantrail Data (Self-initiated)

[GitHubRepo](#)

**2025**

**Tech Stack:** Kafka, Python, ClickHouse, Docker

- Built a real-time streaming pipeline ingesting mock user signup data from Kafka to ClickHouse.
- Developed a Python Kafka Producer to simulate streaming events into a user-signups topic.
- Leveraged ClickHouse Kafka engine tables and materialized views for automated data consumption.
- Containerized the entire pipeline using Docker for seamless orchestration and portability.

**Covid Data Pipeline – API to PostgreSQL with Airflow**

Mini Project | Quantrail Data (Self-initiated)

[GitHubRepo](#)

**2025**

**Tech Stack:** Airflow, Docker, PostgreSQL

- Designed and implemented an ETL workflow to ingest COVID-19 statistics from a public API.
- Built custom Airflow DAGs with task dependencies for robust scheduling and error handling.
- Loaded processed data into PostgreSQL tables optimized for analytical queries and trend analysis.
- Containerized the workflow using Docker to ensure portability, reproducibility, and quick deployment.