Mohamed Hussain Shahul Hameed

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

TECHNICAL SKILLS

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

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

EDUCATION

Rajalakshmi Engineering College   **Chennai, India**
BE Computer Science Engineering   *Graduation Date: May 2025*
International Indian School   **Jeddah, Saudi Arabia**
High School (11th and 12th Grade)   *Graduation Date: May 2021*

EXPERIENCE

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.
• Ingested data from MinIO and Kafka into ClickHouse for downstream analytics.
• Built transformation pipelines in Airflow to validate data consistency and generate reports.
• Improved query performance and data accuracy through optimized data modeling and ingestion.

HACKATHONS

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

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.

TrendLite – Live Retail Insights with ClickHouse
Mini Project | Quantrail Data (Self-initiated)   [GitHubRepo](#)   **2025**
Tech Stack: Python, Streamlit, ClickHouse, Altair, Pandas
• Designed and deployed a real-time sales dashboard to monitor retail performance and KPIs.
• Enabled live insights with dynamic date filtering and backend query optimization.
• Delivered interactive visuals for revenue trends, top products and category-wise breakdowns.
• Enhanced user experience with clean layout, responsive updates, and readable chart labels.