

# Md ISTIAQ AHMED

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## EDUCATION

**Southeast Missouri State University**  
*Bachelor of Science in Computer Science*

Cape Girardeau, MO  
Jan. 2022 – Dec. 2025

## EXPERIENCE

**Software Engineer & Co-Founder**  
*Cran US LLC*

Oct 2024 – Jun 2025  
Cape Girardeau, MO

- Co-founded a customer-facing SaaS product serving paying clients; owned the full development lifecycle from requirements gathering through production deployment and post-launch iteration.
- Partnered directly with early customers to translate qualitative business needs into prioritized technical solutions, enabling rapid product iteration.
- Built foundational data infrastructure and reporting workflows to track user behavior, feature adoption, and operational performance.

**Data Entry Assistant**

*Southeast Missouri State University*

Sep 2024 – Dec 2025  
Cape Girardeau, MO

- Managed patron records in CRM system, ensuring high data quality and consistency.
- Developed Excel-based tools to coordinate schedules and optimize team workflows.

**Computer Science Tutor**

*Southeast Missouri State University*

Jan 2023 – Apr 2023  
Cape Girardeau, MO

- Tutored students in Python, Java, Unix/Linux, and statistics (z-tests, t-tests, hypothesis testing) in both individual and group sessions.
- Helped non-technical students debug code and strengthen analytical problem-solving techniques.

## PROJECTS

**Github Activity Pipeline** | *SQL, Python, Airflow DAG, AWS(S3, IAM), Snowflake, dbt, docker* Dec 2025 – current

- Built an end-to-end ELT pipeline ingesting 2,000+ GitHub events daily via REST APIs using Python, orchestrated with Apache Airflow on a 6-hour schedule and maintaining 98% pipeline reliability.
- Designed a scalable AWS data lake using S3 date-based partitioning and Snowflake external stages; applied LATERAL FLATTEN for nested JSON processing, cutting query costs by 40% through partition pruning.
- Built dimensional models in dbt transforming nested JSON into analytics tables with 12+ data quality tests ensuring 100% accuracy and deployed at \$8/month operational cost through AWS optimization.

**SaaS Subscription Analytics Warehouse** | *SQL, dbt, Snowflake, Power BI*

Sep. 2025 – Nov. 2025

- ETL project designed with dimensional data warehouse modeling SaaS subscription business logic with synthetic payment data (500K+ transactions, 100K customers) using star schema with daily-grain fact table to support both point-in-time MRR snapshots and cohort trend analysis.
- Built 15+ dbt models calculating MRR components and cohort metrics and used Power BI executive dashboard visualizing growth trends, churn evolution, and retention heatmaps.
- Created 40+ dbt tests validating referential integrity, metric calculation logic, and business rules.

**Predictive Analytics Pipeline** | *Python, Pandas, SQL, Scikit-learn*

Aug 2024 – Dec 2024

- Built end-to-end analytical workflow from raw data extraction to model evaluation for calorie expenditure regression problem, simulating analytics engineer responsibilities for model enablement.
- Designed data preprocessing pipeline with feature scaling and PCA dimensionality reduction based on exploratory analysis of feature distributions and multicollinearity patterns.
- Evaluated multiple regression approaches (linear, ridge, random forest) using train/test methodology, comparing MSE, MAE, and  $R^2$  metrics to recommend best-fit model for production use case.

## TECHNICAL SKILLS

**Languages:** SQL, Python, C++, JavaScript, typescript

**Data & Analytics:** SQL, Snowflake, dbt, Pandas, Power BI, Data Warehousing, Data Lake, Dimensional Modeling

**Libraries:** Pandas, NumPy, Matplotlib, Scikit-learn

**Developer Tools:** Git, GitHub, RestAPI, Apache Airflow, Excel, VS Code, Jupyter Notebook, AWS(S3, IAM), Docker