

# 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

- Partnered with business stakeholders to identify operational challenges and translate qualitative needs into data-driven solutions, enabling rapid product iteration and strategic decision-making for early-stage SaaS growth.
- Built end-to-end data infrastructure and analytics workflows to track user behavior, feature adoption, and operational performance, transforming raw business data into actionable insights through visualizations and metrics.
- Owned full development life cycle from requirements gathering through production deployment, demonstrating accountability for business outcomes and ability to deliver scalable solutions in fast-paced startup environment.

### 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

Dec 2025 – Present

SQL, Python, Airflow, AWS, Snowflake, dbt, Docker

- Built an end-to-end ELT pipeline ingesting 2,000+ GitHub events daily as batch via REST APIs using Python, orchestrated with Apache Airflow on a 6-hour schedule and maintaining 98% pipeline reliability. [GitHub](#)
- Designed a scalable AWS data lake using S3 date-based partitioning and Snowflake external stages and 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

Sep 2025 – Nov 2025

SQL, dbt, Snowflake, Power BI

- Designed dimensional data warehouse modeling SaaS subscription business logic using star schema with 500K+ transactions and 100K customers. [GitHub](#)
- Built 15+ dbt models calculating MRR components and cohort metrics with executive Power BI dashboards.
- Created 40+ dbt tests validating referential integrity and metric logic.

### Predictive Analytics Pipeline

Aug 2024 – Dec 2024

Python, Pandas, SQL, Scikit-learn

- Built end-to-end analytics workflow from raw extraction through model evaluation for calorie expenditure regression. [GitHub](#)
- Designed preprocessing pipeline with feature scaling and PCA dimensionality reduction.
- Compared regression models using MSE, MAE, and  $R^2$  metrics to select optimal production model.

## TECHNICAL SKILLS

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

**Data & Analytics:** SQL, Snowflake, Databricks, dbt, Pandas, Apache Spark, Excel, Power BI

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

**Developer Tools:** Git, GitHub, RestAPI, Apache Airflow, Vs Code, Jupyter Notebook, AWS, Docker