

# MD ISTIAQ AHMED

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## EDUCATION

### Southeast Missouri

Bachelor of Science in Computer Science

Cape Girardeau, MO

Jan. 2022 – Dec 2025

## EXPERIENCE

### Software Engineer & Co Founder

Cran US LLC

Oct. 2024 – June 2025

Cape Girardeau, MO

- Co-founded SaaS startup serving paying customers; owned full development lifecycle from requirements gathering to production deployment and post-launch iteration
- Partnered directly with early customers to understand business problems and prioritize feature development, requiring rapid translation of qualitative feedback into technical solutions
- Built data infrastructure supporting operational reporting, enabling visibility into user behavior and feature adoption for early customers

### Data Entry Assistant

Southeast Missouri State University

Sept. 2024 – Dec 2025

Cape Girardeau, MO

- Managed patron records in CRM system, ensuring data quality and consistency; created Excel-based tracking tools for scheduling coordination and workflow optimization.

### Computer Science Tutor

Southeast Missouri State University

Jan. 2023 – Apr. 2023

Cape Girardeau, MO

- Tutored Python, Java, and Unix/Linux fundamentals in 1:1 and small group settings, developing skills in explaining technical concepts to non-technical audiences
- Helped students debug logic errors and strengthen problem-solving approaches, building experience in translating abstract problems into structured solutions.

## PROJECTS

### SaaS Metrics Data Warehouse | dbt, Snowflake, SQL, Dimensional modeling(star Schema)

Nov. 2025 – Present

- Designed and implemented dimensional data warehouse modeling subscription business logic to support MRR, churn rate, and cohort retention analyses for SaaS business context. [Github](#)
- Built staging, intermediate, mart layer architecture following dbt conventions, with business logic centralized in reusable intermediate models to ensure consistent metric definitions.
- Modeled subscription state changes at daily grain to enable both point-in-time snapshots and cumulative views (for cohort analysis), requiring careful handling of upgrade/downgrade/churn events.

### Customer-Facing SaaS Product | Node.js, Express js, Supabase(PostgreSQL), RESTful APIs

Oct. 2024 – June 2025

- Built backend API infrastructure for early-stage SaaS product serving real customers, requiring iteration based on usage patterns and stakeholder feedback
- Designed PostgreSQL schema to support application logic and basic reporting needs; wrote SQL queries for operational dashboards tracking user engagement and feature adoption
- Collaborated cross-functionally with design and customer success to translate ambiguous requirements into technical implementations, shipped iteratively in weekly release cycles

### 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<sup>2</sup> metrics to recommend best-fit model for production use case

## TECHNICAL SKILLS

**Languages:** Python, SQL (Postgres), C++, JavaScript

**Data & analytics:** SQL, Snowflake, dbt, Pandas, Data warehousing, Dimensional modeling

**Developer Tools:** Git, GitHub, Excel, VS Code, Jupyter Notebook, AWS

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