MD ISTIAQ AHMED

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EDUCATION

Southeast Missouri   Cape Girardeau, MO
Bachelor of Science in Computer Science   *Jan. 2022 – Dec 2025*

EXPERIENCE

Software Engineer & Co Founder   Oct. 2024 – June 2025
Cran US LLC   *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   Sept. 2024 – Dec 2025
Southeast Missouri State University   *Cape Girardeau, MO*
- Maintained patron CRM database ensuring data accuracy and record consistency. Additionaly, used Excel to coordinate scheduling and track operational workflows across departments.

Computer Science Tutor   Jan. 2023 – Apr. 2023
Southeast Missouri State University   *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.
- 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^2 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