ALI RAZA

Chicago, IL | araza23@uic.edu | (312) 607-4120 | GitHub: AliRaza2321
https://www.linkedin.com/in/ali-raza-09a267151/

Data Analyst with a strong foundation in Python, SQL, C++, R, and data visualization. Experienced in building automated ETL pipelines, analytics dashboards, and data models that drive measurable business impact. Strong background in Mathematical Computer Science to bridge technical problem-solving with real-world data and decision support.

EDUCATION

University of Illinois at Chicago, IL, USA — *Graduation: May 2025*
Bachelor's in mathematical computer science — *GPA – 3.5 (Dean's List 3x)*

TECHNICAL SKILLS

Programming: Python, SQL, Excel, C++, C#, Java, MATLAB, Pandas, NumPy, Flask.
Software: Unity Engine, Tableau, Power BI, SAS visual analytics, Git.
Web Technologies: HTML, CSS, JavaScript, React, Cloud AWS.

EXPERIENCE

Nexora Analytics - Data Analyst — Sep 2024 - May 2025

- Automated SQL + Python ETL pipelines integrating 3+ data sources, reducing manual processing by 80% and improving data accuracy by 20%.
- Designed interactive dashboards in Pandas and Tableau that identified 15% underperforming SKUs, directly influencing inventory optimization decisions.
- Developed a graph-based recommendation engine using NetworkX (BFS/DFS), uncovering 10% higher cross-sell potential across product categories.
- Partnered with cross-functional stakeholders to translate business goals into actionable metrics and streamlined analytics reporting.

University of Illinois Chicago, IL, USA - Tutoring — Aug 2023 - Dec 2023

- Conducted lab sessions totaling over 60 hours of instructions on Matlab.
- Provided guidance while demonstrating best practices in Matlab, resulting in student average performances of 90%
- Developed personalized plans for students to grasp and polish programming concepts, leading to an improvement in test scores by 30%.

Dignosco Consultancy, Lahore, Pakistan - Assistant System Engineer — Nov 2022 - July 2023

- I led the Bank of America's trading platform migration to a new system, cutting downtime by 15% during the switch.
- Implemented DevOps practices in Serum model to ensure feature compatibility between legacy and new systems, resulting in a 50% decrease in post-migration issues.
- Collaborated with cross-functional Agile teams and stakeholders to identify and resolve technical challenges during the migration process, leading to a successful launch with complete feature functionality.

PROJECTS

Full-Stack Data & Automation Tools – Python, Flask, HTML, SQL, Tableau : *Built end-to-end finance and data pipelines automating 500+ entries and visualizing trends in Tableau, cutting manual work by 75% and boosting accuracy 40%.*

Recommendation & Checkout Systems – C++, SQL, OOP Design : *Developed scalable C++ systems for recommendations and transactions (10k+ records), optimizing runtime 30% via graph algorithms and efficient data handling.*

Economic Forecasting & Analytical Modeling – R, SQL, ggplot2, Shiny : *Built ARIMA/ETS models predicting inflation from 50k+ rows of economic data, visualized through interactive Shiny dashboards for stakeholders.*

Recipe Converter Utility – Python, HTML, Flask : *Created a web app converting recipe units with 99% accuracy, automating 500+ ingredient conversions and reducing user effort 80%.*