

Muhammad Munawwar Anwar

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PROFESSIONAL SUMMARY

Data Analyst with 3+ years of experience working across analytics, data pipelines, and reporting workflows in finance, IT, and academic environments. Skilled in Python, SQL, and Power BI to support data-driven decision-making and operational insights.

EDUCATION

Emory University

Master of Science in Computer Science - GPA: 4.0

Atlanta, GA

December 2025

Habib University

Bachelor of Science in Computer Science - GPA: 3.85

Karachi, Pakistan

June 2022

PROFESSIONAL EXPERIENCE

ABM Industries

Data Analyst Intern

Atlanta, GA

June 2025 – August 2025

- Migrated and optimized Oracle stored procedures from Oracle Fusion to Azure SQL, improving performance by 50% from 1 hour to 30 minutes and reducing FP&A close-cycle delays through PL/SQL-to-T-SQL conversion, query rewrites, and indexing strategies.
- Validated 200K financial records during Oracle-to-Azure SQL migration, reducing data discrepancies from 35% to under 5% and enabling production deployment for FP&A reporting through Python validation scripts and systematic SQL mismatch resolution.
- Developed automated pipeline for ABM operational documentation, generating 735 Q&A pairs from 30 unstructured PDFs into structured training data and enabling future Azure OpenAI chatbot training through PDF text extraction, document chunking, and GPT-4o-mini prompt engineering.

Habib University

Research Assistant

Karachi, Pakistan

July 2022 – July 2024

- Designed 34 Python and SQL lab assignments and exercises, reducing TA workload from 8 to 4 hours per week and lowering instructional support costs across 100+ students through structured documentation, modular code templates, and iterative design refinements.
- Facilitated weekly 3-hour Python and SQL labs for 30+ students, achieving 95%+ lab assignment completion rates and preparing students for advanced coursework and technical projects through hands-on coding guidance, troubleshooting, and personalized feedback.

Ismail Industries Limited

IT Intern

Karachi, Pakistan

July 2021 – August 2021

- Parsed 100K+ daily unstructured Trend Micro syslog records into six CSV files by security event category, replacing vendor-limited reports with structured datasets and enabling custom analysis of firewall, malware, and monitoring events through Python-based signature classification.
- Built automated Python ETL pipeline loading parsed security event CSV files into an MS SQL database daily, replacing manual file searches with instant SQL queries and enabling cross-category trend analysis through relational data modeling and scheduled batch processing.
- Developed Power BI dashboard connected to SQL security database, automating daily security reporting for IT leadership to monitor threats, investigate incidents, and inform antivirus security policy decisions through interactive visualizations and event filtering.

PROJECTS

NYC Yellow Taxi Analytics Platform

August 2025 - December 2025

- Built full-stack analytics platform ingesting 20M+ NYC taxi trip records from January to August 2025 into PostgreSQL, implementing five materialized views and eleven strategic indexes to enable interactive analysis of fare trends, peak demand patterns, and vendor performance.

Gender Wage Gap Analysis & Visualization Platform

August 2025 - December 2025

- Built wage visualization platform processing 344K records, creating multi-dimensional aggregations across year, age, occupation, race, and education, and delivering comparative gender and racial pay-gap insights through an interactive scrollytelling interface using Python and D3.js.

TECHNICAL SKILLS

Programming Languages: Python, SQL, R

Data Analysis Tools: Microsoft Excel, Power BI, Tableau

Databases: PostgreSQL, MS SQL Server, Azure SQL Database, SQLite

Data Processing: Data Cleaning, Data Validation, Data Ingestion, Data Migration

Statistical Analysis: Descriptive Statistics, Hypothesis Testing, Regression Analysis