

M Munawwar Anwar

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PROFESSIONAL EXPERIENCE

ABM Industries

Data Analyst Intern

Atlanta, GA

June 2025 – August 2025

- Migrated two Oracle stored procedures to Azure SQL, improving execution time by 40% and enabling faster financial reporting through query rewrites and optimized indexing strategies.
- Reduced Oracle–Azure SQL discrepancies to under 5% by identifying mismatches with Python scripts and resolving data alignment issues through systematic SQL debugging.
- Built a 735 Q&A synthetic dataset from 30 SOPs to fine-tune an internal chatbot, ensuring accuracy with company terminology and compliance with legal standards.
- Developed an LLM chatbot prototype to handle SOP and work instruction queries, improving operational efficiency by reducing manual search dependence using Azure AI Foundry's o4-mini model.

Habib University

Research Assistant

Karachi, Pakistan

July 2022 – July 2024

- Led weekly Python and SQL labs for 30 students, improving assignment performance by 15% and deepening comprehension in Deep Learning, DSA, and Database Systems.
- Redesigned 34 assignments and labs across multiple courses, cutting debugging support requests by 20% and reinforcing applied understanding through implementation-based coursework.
- Mentored 10 research projects in Deep Learning and LLMs, guiding methodology and publication processes that led to two ICETST 2024 paper acceptances.

Ismail Industries Limited

IT Intern

Karachi, Pakistan

July 2021 – August 2021

- Processed 100K+ daily Trend Micro syslog records, classifying security events and field structures to enhance ingestion design for data-driven dashboards.
- Transformed parsed syslog data into an MS SQL database using Python-based ETL, enabling efficient querying of high-volume security events for analysis.
- Developed a prototype Power BI dashboard to visualize categorized events and trends, helping leadership assess antivirus activity and feasibility of centralized monitoring.

PROJECTS

NYC Yellow Taxi Analytics Platform

August 2025 - December 2025

- Built a PostgreSQL-backed platform for analyzing 20M+ NYC taxi trips from January to August 2025, enabling insights on demand, fare patterns, and vendor performance using optimized schemas and Python processing.

Gender Wage Gap Scrollytelling

January 2025 - May 2025

- Designed interactive visualization analyzing 50,000 wage records (1981–2013) to reveal gender pay disparities across demographics using D3.js narrative storytelling.

School Management Website

August 2021 - May 2022

- Built a school management system for 10 teachers and 30 students, digitizing records and automating data access via RESTful APIs and MongoDB for daily operations.

TECHNICAL SKILLS

Programming & Query Languages: Python, SQL, JavaScript, TypeScript, C++

Databases & Cloud Platforms: PostgreSQL, MS SQL Server, Azure SQL Database, MongoDB

Data Visualization: Power BI, Matplotlib, D3.js

Machine Learning & AI: TensorFlow, PyTorch, Scikit-learn

Software Engineering & Development Tools: Node.js, Express.js, REST APIs, JWT, React, Git, GitHub, VS Code

EDUCATION

Emory University

Atlanta, GA

Master of Science in Computer Science - GPA: 4.0

December 2025

Habib University

Karachi, Pakistan

Bachelor of Science in Computer Science - GPA: 3.85

June 2022