

# 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