Hesham Rashid

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Education

Master of Science, Artificial Intelligence & Business Analytics   **(Expected) December 2026**
University of South Florida, Tampa, FL

Bachelor of Science, Business Analytics & Information Systems   **May 2025, GPA: 3.56**
University of South Florida, Tampa, FL

Certifications

Google Analytics Individual Qualification (Google), Snowflake Core Certification (Snowflake)

Skills

Databases: SQL Server 2022, Oracle 23, PostgreSQL, MongoDB, Snowflake
Programming Languages: Python, C#, R, JavaScript (React, Node.js)
Cloud Platforms: Microsoft Azure, Google Cloud Platform, AWS, Snowflake
Analytics & Visualization: Tableau, Power BI, Microsoft Visio, Splunk
Tools & Frameworks: Docker, Flask, ASP.NET Core MVC, Git, DBeaver, VS Code

Project Experience

Recipe Database System & MunchAI   **November 2025**
- Designed and created a full-stack web application using ASP.NET Core MVC and PostgreSQL for a recipe management system.
- Architected a normalized relational database with 17 tables; created a detailed entity relationship diagram and data dictionary documenting constraints, foreign key relationships, and indexes of original build
- Used CRUD properties to enable users to create and view 75 recipes and 422 ingredients
- Built MunchAI, a RAG powered chatbot that recommends recipes only from the database system.
- Deployed the application to Railway, with a PostgreSQL Database for external access. Originally deployed via Microsoft Azure, with an Azure SQL Database, but migrated to PostgreSQL and Railway now.

Grocery Store Simulation – OLTP to OLAP Pipeline   **February 2026**
- Engineered a full end-to-end data pipeline simulating a 14-hour store day, generating hundreds of transactions per run against a normalized PostgreSQL OLTP schema with 8 tables
- Built a custom ETL pipeline that migrates transactional data into a star schema data warehouse nightly, transforming raw OLTP records into a fact_sales table with 5 dimension tables
- Deployed headlessly on a Raspberry Pi Zero 2W as a persistent mock server, with the OLAP database accessible remotely, demonstrating distributed system design across real hardware.

NFL Play Visualizer   **December 2025**
- Built a full-stack web application using React, Python, and Flask that transforms NFL Next Gen Stats tracking data into interactive play-by-play visualizations of the entire 2023 NFL season.
- Engineered a PostgreSQL database containing over 5 million player tracking records across 14,000+ plays, implementing compound indexing and custom SQL views for optimized query performance.
- Developed a custom ETL pipeline processing 36 CSV files, handling data type standardization and non-unique identifier resolution across multi-million row datasets.
- Designed a dual-panel interface rendering pre-snap formations alongside animated route development using SVG-based coordinate transformations, with play analytics including formations, coverage schemes, and Expected Points Added (EPA).

Work Experience

AI Trainer (Freelance) | Handshake AI & Uber AI | October 2025 – Present
- Train AI models through describing images, videos, and audio for the AI to learn from as well as writing efficient prompts and rating and critiquing AI results

Pharmacy Technician | Walgreens Pharmacy, Seffner, FL | July 2021 – Present
- Provide customer support by clearly explaining health concerns and medication details for approximately 700 regular customers.
- Contribute to an organized, efficient pharmacy workflow that improves customer satisfaction and health outcomes.
- Became proficient in in-store software for patient management, insurance resolution, prescription processing, and medication information.