

Mohammed Afify

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SUMMARY

Information Technology and Systems graduate with hands-on experience building data pipelines and dashboards, including leading a client-sponsored AI automation project for a global semiconductor manufacturer. Skilled in SQL, Python, Tableau, and Apache Spark, with a track record of turning raw data into decision-ready insights.

CAPSTONE PROJECT EXPERIENCE

Project Manager, AP Invoice Wizard — Client-Sponsored Capstone, Diodes Incorporated August 2025 – December 2025
UT Dallas, ITSS 4395

- Led a 6-person cross-functional team as Project Manager to deliver an AI-powered invoice-processing system for Diodes Incorporated, a global semiconductor manufacturer, within a 12-week client engagement
- Trained a custom Azure Document Intelligence extraction model on 15 vendor invoices (10 English, 5 Chinese), achieving 75% average field-extraction confidence on English invoices and reducing per-invoice processing time to 15–20 seconds
- Structured invoice data into a JSON schema and automated its transformation into formatted Excel output using Python (pandas, openpyxl), eliminating manual data entry across the full ingestion pipeline
- Negotiated scope directly with the client sponsor, securing sign-off to prioritize English-invoice accuracy within the semester timeline while still meeting all core deliverables
- Presented final results and system architecture to company stakeholders; Diodes is now rebuilding the prototype for internal production deployment

ACADEMIC PROJECTS

Business Intelligence & Data Warehousing Coursework Project — ITSS 4300, UT Dallas 2022

- Designed 5 executive-level Tableau dashboards for a simulated nonprofit organization, visualizing financial health metrics for leadership-style reporting
- Built a normalized data warehouse in MySQL for a simulated 10-location retail business, structuring transactional, normalized, and discrete datasets to support multi-location analysis

WORK EXPERIENCE

Geek Squad, Best Buy — Rockwall, TX

Advanced Repair Agent (August 2023 – September 2024) | Consultant Agent (February 2023 – August 2023)

- Promoted to Advanced Repair Agent after 6 months based on technical performance; diagnosed and repaired up to 20 Windows and Mac systems daily across 8 major hardware manufacturers, consistently meeting sub-20-minute service targets
- Advised over 24 clients per day in scheduled consultations, resolving hardware and software issues under a fast-paced, appointment-driven workflow

EDUCATION

The University of Texas at Dallas — Dallas, TX

December 2025

B.S., Information Technology and Systems

Relevant Coursework: Data Warehousing & SQL, Business Intelligence (Tableau), Big Data Systems (Hadoop, Spark, Hive, AWS EMR), Quantitative Business Analysis

TECHNICAL SKILLS

Languages & Databases: SQL, MySQL, Python

Analytics & BI: Tableau, Apache Spark, Microsoft Excel

Cloud & Automation: Azure Document Intelligence, Azure Functions, AWS EMR, JSON, REST APIs

CERTIFICATIONS & WORK AUTHORIZATION

Certifications: Microsoft Cybersecurity Analyst Professional Certificate — Coursera, 2025

Work Authorization: US Citizen — eligible to work in the United States for internships and full-time roles with no restrictions