

Mohammed Afify

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SUMMARY

Information Technology and Systems graduate with hands-on experience across the Hadoop/Spark ecosystem and cloud-based data pipelines, including leading a 6-person team that built an automated data-extraction system for a global semiconductor manufacturer on Azure. Skilled in SQL, MySQL, Apache Spark, Hive, and Azure Document Intelligence.

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 team as Project Manager to architect and deliver a cloud-based data-extraction pipeline for Diodes Incorporated, a global semiconductor manufacturer, within a 12-week engagement
- Designed an end-to-end automation pipeline connecting SharePoint, Python-based Azure Functions, and Azure Logic Apps, converting unstructured invoice PDFs into structured JSON/Excel output in 15–20 seconds per document with zero manual intervention
- Built and trained a custom Azure Document Intelligence extraction model using OCR on 15 invoices (10 English, 5 Chinese), achieving 75% average field-extraction confidence on English documents across 4 training iterations
- Configured secure, automated data flow across 4 SharePoint directories (ingestion, failure handling, archiving, output) using managed identities and role-based authentication
- Negotiated project scope with the client sponsor to prioritize on-time delivery, then presented final architecture to stakeholders; Diodes is now rebuilding the system for internal production deployment

ACADEMIC PROJECTS

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

- 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
- Designed 5 executive-level Tableau dashboards for a simulated nonprofit organization, visualizing financial health metrics for leadership-style reporting

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: Big Data Systems (Hadoop, MapReduce, Hive, Apache Spark, AWS EMR), Data Warehousing & SQL, Business Intelligence (Tableau)

TECHNICAL SKILLS

Big Data & Cloud: Apache Spark, Hadoop (HDFS, MapReduce), Hive, AWS EMR, Azure Document Intelligence, Azure Functions, Azure Logic Apps

Languages & Databases: SQL, MySQL, Python, Linux

Data Pipeline & Integration: JSON, REST APIs, ETL, SharePoint Automation

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