

AYDA RAJAB

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Data Engineer with 4+ years of experience building and optimizing data pipelines, automating ETL workflows, and delivering BI solutions at scale. Currently leading a data team processing 8M+ records serving 2,500 users across a 5,000-employee healthcare organization. Skilled in SQL performance tuning (50–70% execution improvements), Python-based automation, and end-to-end pipeline architecture. Background in biomedical engineering and healthcare administration brings domain depth to data infrastructure and compliance-sensitive environments.

TECHNICAL SKILLS

Data Engineering: SQL (MySQL, Stored Procedures, Query Optimization), Python (Pandas, Regex, Scripting), ETL/ELT Pipeline Design, Data Warehousing, Data Modeling, API Integrations (RESTful)

BI & Analytics: Power BI (DAX, Dataflows, Scheduled Refresh), Tableau, Dashboard Architecture, Reporting Automation

Platforms & Tools: Power Automate, SharePoint, Retool, Git, Jenkins, JIRA, Maven, Selenium

Languages: SQL, Python, JavaScript, Java

Methodologies: Agile/Scrum, Lean Six Sigma (Green Belt), QA Validation, Test Automation, CI/CD

PROFESSIONAL EXPERIENCE

Senior Data Engineer & Technical Lead | [Key Autism Services](#), Miami, FL May 2023 – Present

Lead a team of 4 engineers building data infrastructure for a 5,000-employee healthcare organization, managing pipelines that process 8M+ records and serve 2,500+ end users.

- Redesigned MySQL stored procedures and implemented strategic indexing, cutting query execution times by 50–70% and reducing a critical pipeline from 1:30 to under 40 seconds.
- Architected automated ETL workflows using Python, JavaScript, and Power Automate, processing 8M+ records with regex-based parsing that improved data extraction accuracy by 30–40%.
- Built and maintained Power BI dashboards with scheduled refresh cycles and dataflow dependencies, eliminating manual reporting and recovering 30+ hours/month for operations teams.
- Led Agile delivery of MySQL data pipelines and interactive BI dashboards, accelerating reporting delivery speed by 35% and enabling data-driven decisions across leadership and frontline teams.
- Drove system testing and QA validation across releases, achieving 99% error-free deployment rate and establishing repeatable procedures that reduced post-release defects.
- Partnered with cross-functional stakeholders to translate business requirements into technical specifications, aligning data architecture with operational goals across multiple departments.

Quality Engineering Analyst | [Accenture](#), San Antonio, TX Aug 2022 – May 2023

Promoted within 12 months. Owned test automation and quality engineering for 12+ federal applications in high-security environments.

- Maintained and enhanced Selenium and JMeter automation frameworks, streamlining regression and functional testing cycles across 12+ applications in federal compliance environments.
- Identified and resolved defects collaboratively with developers and PMs, reducing defect recurrence rates by 35% and improving release quality across the portfolio.
- Executed risk assessments and root cause analyses early in the development lifecycle, preventing 15+ critical defects from reaching production.

Test Automation Engineer | [Accenture](#), San Antonio, TX Aug 2021 – Aug 2022

- Designed and executed automated test scripts for functional, non-functional, and regression testing, supporting timely delivery of 12+ software releases with comprehensive coverage.
- Reduced defect resolution time by 25% by streamlining cross-team documentation and communication between QA, development, and project management.
- Aligned automation strategies with product roadmaps and release cycles, accelerating project delivery timelines by 25% through optimized resource allocation.

EDUCATION & CREDENTIALS

Master of Healthcare Administration (MHA) | University of Miami

Bachelor of Science in Biomedical Engineering | The Catholic University of America

Lean Six Sigma Green Belt | University of Miami