

Joshua Achire

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EDUCATION

Western Michigan University

Master's in Applied and Computational Mathematics

Kalamazoo, Michigan

Aug. 2025 – December 2027

EXPERIENCE

Graduate Teaching Assistant

Western Michigan University

August 2025 – Present

Kalamazoo, MI

- Delivered tutorials and support in finite mathematics, applying strong analytical judgment and attention to detail to explain quantitative and financial concepts such as interest rates, annuities, and compound growth.
- Used MS Excel and MS Word to help students model financial scenarios, apply formulas, and document results in written materials for real-world contexts.
- Communicated technical and scientific information clearly to students, working both independently and cooperatively with faculty to manage multiple tutoring sessions with strong organizational skills.

Data Analysis Tutor

University of Cape Coast

June 2024 – August 2024

Cape Coast, Ghana

- Taught 40+ students the fundamentals of Power BI, covering data modeling, visualization, and dashboard design as part of business reporting.
- Guided learners in building interactive visualizations and reports, using Power Query for data cleaning and transformation, reinforcing attention to detail and documentation practices.
- Introduced students to DAX formulas, MS Excel functions, and pivot tables to perform calculations and uncover insights, demonstrating strong speaking and instructional skills.

PROJECTS

E-Commerce Sales Analysis | *SQL, Data Analytics* (GitHub)

- Analyzed 20,000+ transactions across an 8-table relational schema using SQL, applying analytical judgment to uncover revenue concentration risk, finding 89.7% of revenue tied to a single category and 55%+ generated by just 5 of dozens of sellers.
- Identified a 13%+ refund rate representing a material revenue leak, equivalent to roughly 1 in 6 orders failing to convert to retained revenue, and documented findings in a written report.
- Delivered 8 data-backed recommendations spanning category diversification, seller account strategy, and shipping provider allocation, demonstrating independent project management from analysis through written reporting.

Pharmacy Sales and Revenue Performance | *Power BI, Data Analytics* (Github)

- Built Power BI dashboards analyzing 20K+ records across 8 tables to uncover revenue, seller, shipping, and return insights for business reporting.
- Found Electronics drove 89.7% of \$12.6M revenue and top 5 sellers generated 55%+ of total sales, informing prioritized, data-backed recommendations.
- Quantified a 13.1% refund rate and 8,452 delayed shipments using SQL with join validation and window functions, documenting results to support business decisions.

Gym Membership Churn Analysis | *SQL, Data Analytics* (Medium)

- Analyzed 1,724 members across 10 locations using SQL to identify churn drivers, finding quarterly subscriptions retain 10% better and discounts reduce churn by 4-5%.
- Identified a \$50K+ revenue opportunity by discovering 48% at-risk members and that personal training clients unexpectedly churn 3% higher than non-clients.
- Developed adaptive churn thresholds (30/60/90 days by subscription model) and communicated findings in a published written analysis, revealing that standard metrics overestimate churn by up to 15%.

TECHNICAL SKILLS

Software: MS Excel (Advanced Functions, Pivot Tables), MS Word, Power BI, Power Query

Analytic Languages: Python, SQL, DAX

Core Skills: Analytical Judgment, Attention to Detail, Project Management, Writing & Documentation, Verbal Communication, Independent & Team-Based Work

Statistical Methods: A/B Testing, Experimental Design, Statistical Analysis, Predictive Modeling, Forecasting

Libraries: pandas, NumPy, Matplotlib, scikit-learn