

Luke Acosta

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SUMMARY

Statistics student with hands-on healthcare and insurance analytics experience, translating structured datasets into clear reporting, **clinical insights**, and useful visual narratives. Built SQL queries, Excel and VBA models, **Power BI** dashboards, R analyses, and validation workflows through supervised university projects. Presented complex findings, assumptions, and limitations in plain language for faculty and peer audiences. Work with 18,400 clinical encounter records developed careful habits around data quality, documentation, reproducibility, and privacy-aware analysis. Insurance modeling coursework added experience with normalized tables, claim patterns, regression outputs, and scenario reporting. Brings steady organization, curiosity around ambiguous questions, and a constructive approach to **issue resolution**. Ready to support product reporting, **systems performance** analysis, clinical insights, and innovation within a collaborative professional services team.

EDUCATION

Bachelor's Degree in Statistics

2027

Midwest State University GPA: 3.8

Madison, WI

Coursework: Statistical Modeling, Database Design, Information Systems, Software Development

TECHNICAL SKILLS

- **Spreadsheet Tools:** Microsoft Excel, VBA, Power Query
- **Microsoft Office:** Word, PowerPoint, Outlook
- **Data Querying:** SQL, SQL joins, relational queries
- **Business Intelligence:** Power BI, dashboards, data visualization
- **Statistical Computing:** R, descriptive statistics, regression
- **Data Modeling:** Normalized tables, data modeling, source relationships
- **Data Quality:** Data cleaning, validation rules, missing-value analysis
- **Clinical Analytics:** Clinical measures, diagnosis analysis, utilization reporting
- **Insurance Analytics:** Claim frequency, coverage analysis, risk modeling
- **Reporting Methods:** Scenario summaries, exception flags, presentation reporting
- **Documentation:** Versioned logs, field definitions, project guides
- **Programming Foundations:** Coding, software development, automation

SKILLS

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|-------------------|------------------|--------------------------|-------------------------|
| • SQL | • R programming | • Microsoft Outlook | • Dashboard development |
| • Microsoft Excel | • Power Query | • Data cleaning | • Reporting |
| • VBA | • Microsoft Word | • Data modeling | • Data validation |
| • Power BI | • PowerPoint | • Descriptive statistics | |

EXPERIENCE

Clinical Data Analytics Project Assistant

January 2026 - August 2026

University Health Data Lab

Madison, WI

Supported a faculty-supervised health analytics study through clinical reporting, dashboard development, data validation, and reproducible analysis. Partnered with a five-member research group and organized delivery materials for review.

- Built clinical **reporting** data from 18,400 encounters using SQL joins and Excel **Power Query**.
- Created Power BI dashboards comparing utilization, diagnoses, and missing values across four study populations.
- Automated **Excel** quality checks with **VBA** for duplicate keys, invalid dates, and incomplete demographics.
- Applied **descriptive statistics** in R, reconciling dashboard measures with source extracts and approved rules.
- Presented clinical findings, limitations, and follow-up questions through concise **PowerPoint** briefings.
- Maintained versioned logs and organized files so peers could reproduce each validation decision.

Insurance Risk Modeling Capstone

September 2025 - December 2025

Midwest State University

Madison, WI

Completed a faculty-evaluated insurance analytics capstone focused on claim patterns, **data modeling**, forecasting, and presentation. Owned analysis workflow from source relationships through final interpretation for an 11-team class.

- Analyzed 12,000 simulated **insurance** records for claim frequency, coverage attributes, and regional patterns.
- Designed normalized tables and **SQL queries** linking member, claim, and provider information.
- Developed Excel and VBA forecasting workbook with controls, exception flags, and scenario summaries.
- Compared **R** regression outputs with **Power BI** visuals to identify presentation-layer differences.
- Documented assumptions, transformations, and quality checks in a guide supporting peer review.
- Presented complex risk findings in plain language, earning a top-project designation among 11 teams.

PROJECTS

Clinical Measure Validation Dashboard 📅 2026

Created a supervised analytics workflow combining SQL, Power Query, VBA, R, and Power BI to validate clinical measures, explain missing-value patterns, and present interpretable findings for research review.

Insurance Claims Scenario Model 📅 2025

Built a classroom insurance model with normalized data, SQL queries, Excel forecasting, R regression comparisons, and Power BI reporting for transparent scenario analysis.

LEADERSHIP & AWARDS

- Dean's List, Midwest State University, Fall 2025 and Spring 2026
- Top Project Designation, Insurance Risk Modeling Capstone, 2025
- Undergraduate Research Poster Finalist, Midwest State University, 2026

CERTIFICATIONS

- Microsoft Excel: Data Analysis and Visualization 📅 2026
- SQL for Data Science 📅 2025
- Power BI Data Visualization Foundations 📅 2026

PROFESSIONAL AFFILIATIONS

- Treasurer, Statistics and Data Science Student Association, 2025 - 2026
- Peer Tutor, Quantitative Methods Learning Center, 2026
- Student Presenter, Undergraduate Health Analytics Research Forum, 2026

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST