Fiesha Daniel - Data Analysis Portfolio

Supporting document for the Data Analyst II position, Medicaid Fraud Control Unit, Office of the Attorney General

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This portfolio shows how I extract, validate, and interpret data, and how I communicate results to the people who act on them. Each case study below names the problem, what I did, and the result.

Qualifications and evidence

Posting qualification	Where I've shown it
Extract and analyze datasets	FEMA eligibility analysis (Case 1): analyzed federal aid eligibility data and built a predictive model in KNIME
Write queries for data extraction and analysis	Vosyn internship (Case 2): worked in SQL and Python on the VosynVerse platform
Validate and interpret data, communicate results	Case 1: tested the model against actual outcomes, found about 62,000 false denials, and recommended human review
Working knowledge of database structures	Database Management Systems coursework at VCU; Vosyn platform data work
Several projects across multiple teams	Case 2: coordinated interns across time zones; VCU systems design project as design lead of a three-person team; District Leads client work (Case 5)
Detail-oriented, accountable, high integrity	Tesla (Case 3): tracked 150+ orders a week accurately; Treasurer (Case 4): tracked every member's payment status
Tableau and Microsoft Office	Tableau, Excel, PowerPoint, and Word used across coursework and roles

Case 1: FEMA Individual Assistance eligibility analysis

VCU Information Systems, Fall 2025, team of three

Problem. Could a model reliably predict who qualifies for FEMA disaster aid, and could program staff trust it?

What I did. I analyzed federal aid eligibility data and built a logistic regression model in KNIME. I then validated its predictions against actual eligibility outcomes instead of relying on the model's own output. I also wrote the project's ethics section on how automated decisions affect applicants.

Result. The model reached 61% accuracy, but validation showed it produced about 62,000 false denials, meaning eligible people the model would have turned away. I recommended using it only as a decision-support tool with human review.

Why it matters for this role. Public benefit data has real consequences for the people in it. This project taught me to check results against the facts, flag errors clearly, and explain what the numbers do and don't support. The same care applies to Medicaid claims data used in investigations.

Case 2: Data and AI work at Vosyn

Software Developer Intern, Vosyn (AI startup), May to August 2024, remote

Problem. The VosynVerse platform needed new AI features connected and tested by a distributed team of interns.

What I did. I started on the front-end team working in Python, SQL, and GitHub, then moved to the AI team to connect new AI features to the platform. I coordinated interns across time zones on a case study that used Vosyn AI test data. I also tracked the platform's budget and spending for monthly reports.

Result. I validated teammates' work against the latest model so the case study used current, consistent results. I also debugged existing encrypted code.

Case 3: Records accuracy at Tesla

Parts Specialist, Tesla, May to August 2022

Problem. Service teams depended on accurate, real-time parts records, and inventory system outages put repairs at risk.

What I did. I processed and tracked more than 150 parts orders a week in the inventory system, with 50 on my busiest day. When the system went down, I built a backup spreadsheet process to keep tracking orders.

Result. Records stayed accurate, and mechanics still received parts quickly during outages.

Case 4: Financial records as chapter treasurer

Treasurer, Pi Kappa Phi, January to May 2024

Problem. The chapter needed accurate records of spending and of which members had paid dues.

What I did. I managed chapter finances in two Excel spreadsheets: one for spending, and one tracking paid, unpaid, and payment-plan members. I used a door list to restrict event access for unpaid members.

Result. Most members paid, and every event stayed within budget.

Case 5: District Leads

Co-Founder and Technical Lead, July 2026 to present, districtleads.net

Problem. Local service businesses in the DMV area lose customers when they have no reliable way to be found online or to capture inquiries.

What I did. I co-founded a web design and local SEO business and lead the technical work for clients. For a cash home buyer, I built the website, moved hosting to Netlify, routed form leads to the client's inbox, set up the Google Business Profile, and ran SEO and ads.

Result. The site brought in calls from new leads. Running the business alongside full-time school and work shows I can own several projects at once and see them through.

Tools and education

Area	Details
Data and querying	SQL, Python, KNIME, Excel, data validation, machine learning basics

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Visualization and reporting	Tableau, Excel, PowerPoint, Word
Systems and controls	Database Management Systems, IT Auditing, Systems Analysis & Design (VCU coursework)
Education	B.S., Business Management, Virginia Commonwealth University, expected May 2027; Business Administration coursework, Northern Virginia Community College, 2021 to 2023
Certification	CompTIA Security+, in progress, expected early 2027
Languages	English (fluent), Amharic (proficient)

I learn new tools quickly and am ready to build working skill in SAS and Teradata for MMIS data work.