

Timothy York

📞 (703) 555-0184 ✉ timothy.york@outlook.com 🔗 linkedin.com/example/timothyork 📍 Alexandria, VA 22314

SUMMARY

Mid-level **Data Scientist** with more than five years delivering analytics, **predictive risk models**, dashboards, automations, and decision support for federal program operations. Converts inconsistent source data, API feeds, SharePoint records, and unstructured documentation into normalized datasets, statistical models, management visualizations, and documented BI products. Brings hands-on skill with Python, SQL, R, NumPy, MATLAB, Weka, SPSS, Anaconda, Power BI, Power Platform, SharePoint, InfoPath, Power Automate, ETL, and federal systems integration. Active **Top-Secret clearance** and **U.S. citizenship** support secure on-site collaboration in Arlington. Ready to contribute practical insight, thoughtful partnership, and dependable delivery to Civic Vector Solutions' public-sector mission.

EXPERIENCE

Data Scientist January 2024 - Present
Northbridge Federal Analytics Arlington, VA

Owns end-to-end analytics delivery for a federal oversight portfolio, guiding data calls, predictive modeling, BI products, Power Platform applications, and secure integration decisions for program managers.

- Governed API feeds, **SharePoint** records, and manual transfers through SQL and Python data products.
- Built logistic regression models for case prioritization across federal operating units and review teams.
- Classified 18,000 pages with Python NLP workflows, surfacing control themes for analyst review.
- Rebuilt **Power BI dashboards** with dimensional models, drill-through views, and documented refresh logic.
- Connected **Power Platform** applications with SharePoint and **InfoPath** submissions, improving intake traceability.
- Documented storage options, validation rules, **data calls**, and operating procedures for security stakeholders.

Data Analyst January 2022 - December 2023
Blue Mesa Public Sector Consulting Washington, DC

Delivered recurring federal analytics services across data integration, **statistical analysis**, **risk assessment**, BI reporting, workflow automation, and user documentation for four program offices.

- Joined SQL extracts, REST API responses, and spreadsheets into auditable federal analytical datasets.
- Used R, Python, **NumPy**, and SPSS for statistical summaries supporting quarterly risk reviews.
- Created Power BI visualizations for workload, exceptions, and compliance trends used by managers.
- Maintained SharePoint lists, InfoPath forms, and Power Platform **automations** across four program offices.
- Prototyped **Weka** document classification in **Anaconda**, documenting precision checks for analyst workflows.
- Established data-quality checks for identifiers, duplicates, and dates, strengthening management report confidence.

Business Intelligence Analyst May 2021 - December 2021
Harbor Point Research Group Bethesda, MD

Supported a supervised federal analytics engagement through SQL staging, exploratory reporting, dashboard delivery, intake testing, model comparison, and user guidance for senior analysts.

- Consolidated program files and system extracts into **SQL** staging tables for exploratory reporting.
- Produced **Power BI** dashboards covering case volume, aging, and risk indicators for reviewers.
- Created **Python** and **R** scripts for normalization, validation, and repeatable weekly refresh preparation.
- Tested **SharePoint** and InfoPath intake configurations with representative records and logged defects.
- Compared Weka and **MATLAB** approaches on labeled data, documenting assumptions and evaluation results.
- Authored a user guide covering dashboard navigation, lineage, refresh timing, and risk interpretation.

PROJECTS

Federal Risk Insight Hub 📅 2025

Created a secure prototype combining Python feature engineering, SQL data normalization, Power BI visuals, and predictive risk scoring for program review teams.

Document Intelligence Pilot 📅 2023

Built a Weka and Anaconda classification pilot for unstructured federal documents, with validation notes, analyst review queues, and practical escalation guidance.

LEADERSHIP & AWARDS

- Received a 2025 Federal Analytics Delivery Award for dependable risk reporting and stakeholder partnership.
- Earned a 2024 Client Impact Recognition for improving Power BI reporting and intake traceability.

- Led peer knowledge sessions on data quality, model review, and clear documentation for analysts.

EDUCATION

Master of Science in Data Science	2020
George Mason University GPA: 4.0	Fairfax, VA
<i>Coursework: Machine Learning, Statistical Modeling, Data Visualization, Database Systems</i>	
Bachelor of Science in Statistics	2018
Towson University GPA: 3.8	Towson, MD
<i>Coursework: Probability, Regression Analysis, Statistical Computing, Experimental Design</i>	

CERTIFICATIONS

- Microsoft Certified: Power BI Data Analyst Associate 📅 2023
- Microsoft Certified: Power Platform Functional Consultant Associate 📅 2024
- Active Top-Secret Clearance 📅 2024

TECHNICAL SKILLS

- **Programming Languages:** Python, R, SQL
- **Data Science Libraries:** NumPy, pandas, SciPy
- **Machine Learning:** Logistic Regression, Decision Trees, Classification
- **BI Platforms:** Power BI, SPSS, MATLAB
- **Microsoft Platforms:** Power Platform, SharePoint, InfoPath
- **Workflow Automation:** Power Automate, Power Apps, SharePoint Lists
- **Data Integration:** REST APIs, ETL, System-to-System Connections
- **Data Engineering:** SQL Server, Data Normalization, Data Validation
- **Text Analytics:** Natural Language Processing, Weka, Anaconda
- **Federal Analytics:** Federal Systems, Risk Assessment, Data Calls
- **Documentation:** User Guides, Data Lineage, Operating Procedures

SKILLS

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|------------|------------------------|-------------------------------|-------------------------------|
| • Python | • Machine Learning | • ETL | • Federal Systems Integration |
| • SQL | • Predictive Modeling | • Risk Assessment | • Technical Documentation |
| • R | • Statistical Analysis | • Data Normalization | • API Integration |
| • Power BI | • Data Visualization | • Natural Language Processing | |

PROFESSIONAL AFFILIATIONS

- Member, Institute for Operations Research and the Management Sciences, supporting applied analytics practice.
- Member, Data Management Association, exchanging methods for governance, integration, and trusted reporting.

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST