David Madison

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Summary

Data Analyst with expertise in financial forecasting, business intelligence, and machine learning. Proven track record optimizing telecom billing margins and building predictive models with high accuracy. Currently analyzing governance datasets at ISS STOXX while conducting AI research at the University of Oklahoma. U.S. Army veteran combining technical proficiency in Python, SQL, and BI tools with analytical rigor and attention to detail.

Technical Skills

Programming: Python, SQL, JavaScript, HTML, CSS, Excel
Analytics & Visualization: pandas, NumPy, matplotlib, Tableau, Power BI, Jupyter Notebook, Streamlit
Business Intelligence: Dashboard Creation, KPI Reporting, Data Visualization
Web Development: React.js, Tailwind CSS, Chart.js, jQuery
Databases & Tools: MySQL, MongoDB, GitHub, VS Code, Google Colab
Core Concepts: Data Cleaning, Exploratory Data Analysis (EDA), Machine Learning Basics, SHAP, scikit-learn, XGBoost

Projects

Credit Risk Scoring Model – End-to-End Machine Learning System **Website**

A production-ready machine learning system that predicts loan default probability, classifies borrowers into risk tiers, and provides transparent model explainability using SHAP within an interactive Streamlit dashboard.

- Built an end-to-end credit risk scoring system using Python (pandas, scikit-learn, XGBoost, Streamlit) to predict loan default probability, achieving 87% F1 score and 92% ROC-AUC while delivering real-time borrower risk classifications with transparent SHAP explainability.

AVOXI Billing Analysis – Telecom Billing Margin Optimization **Website**

A Python-based analytics project that examined telecom billing data to uncover margin inefficiencies and identify cost-saving opportunities through data-driven insights.

- Analyzed three months of telecom billing data (~$84K) using Python (Pandas, NumPy) to optimize vendor routing and pricing, boosting gross margin from 39.6 % to 46.4 %.

Education

Master of Science in Data Analytics _Expected: May 2026_

Southern New Hampshire University

Bachelor of Science in Information Technology _Conferred: May 2025_
Concentration: Full-Stack Programming GPA: 3.85 | *Magna Cum Laude*

American Military University

Relevant Coursework: Intermediate Python Programming, Web Development Using JavaScript®,
MongoDB® and Python®

Experience

Vote Execution Jr. Analyst | ISS STOXX - Norman, OK | December 2025 – Present
- Process and validate 1,000–1,500+ institutional votes weekly across global markets with 99.7% accuracy, supporting governance decisions for major international clients.
- Audit and reconcile 500K+ governance and ballot data points each season, ensuring strict compliance with regional regulations and client-specific policies.
- Partner with Operations, Data Quality, and Research teams to resolve complex discrepancies, reducing vote turnaround time by 18% through improved coordination and workflow optimizations.
- Build and maintain Excel- and Power BI–based reports to monitor vote volumes, exceptions, and audit trails, enhancing visibility for cross-regional teams and leadership.
- Automate repeatable tasks using advanced Excel logic and Python scripts, improving efficiency and reducing manual errors during peak voting cycles.

Research Assistant – Data-Driven Computational Design (AI & Robotics) | University of Oklahoma - Norman, OK | May 2025 – Present
- Collected and analyzed over 10,000 data points from 3D-printing experiments using Python (pandas, NumPy) to identify material performance patterns.
- Assisted in developing and testing machine learning models that reached up to 87% accuracy in predicting material strength.
- Helped design and automate ETL workflows, improving data cleaning efficiency and consistency across experiments.
- Created visual reports and statistical summaries in Power BI and matplotlib to support decision-making for AI and robotics researchers.

Senior Student Services Specialist | Supervisor | University of Oklahoma - Norman, OK | January 2023 – November 2025
- Maintain and analyze student data to identify at-risk students, track progress toward degree completion, and improve communication strategies that promote academic success.
- Develop reports and visual dashboards in Excel and Power BI to share key insights with faculty and leadership, helping optimize student resource allocation.

Certifications

- Microsoft SQL Certification — Data Fundamentals (DP-900), Microsoft, (2025)
- Google Advanced Data Analytics Professional Certificate, Google/Coursera (2025)
- Securities Industry Essentials (SIE) Passed, FINRA (2025)
- Microsoft Certified: Power BI Data Analyst Associate (PL-300), Microsoft (2025)