

BILLIAM STEWART RODRIGUEZ

Patuxent River, MD

<https://www.billystewartrodriguez.com>

Readiness Data Analyst – Systems Analyst II

Data Analyst and BI Engineer with 22+ years of U.S. Navy service, specializing in end-to-end analytics pipeline development, automated ETL workflows, and enterprise dashboard engineering. Expert in Tableau, R, Python, and SQL, with hands-on experience building production data sources, Tableau Prep flows, and automated R/Python scripts that have eliminated manual processes and reduced processing time by up to 85%. Proficient in leveraging the NAE Standard Data Repository (SDR) on Cloudera/Hadoop (Impala, Hive, YARN) to develop scalable SQL pipelines consumed across Tableau, Qlik, and Power BI. Holder of an active Secret Security Clearance. Committed to delivering data-driven insights that drive fleet readiness, maintenance efficiency, and mission-critical decision-making.

- Microsoft Office Suite
- Apache | HDFS | YARN
- Azure | AWS
- GitHub | VS Code | PROXMOX
- Power BI | Tableau | Qlik
- Windows Server | Linux
- Python | R | SQL | PowerShell
- CDSW | Apache Ranger | HUE
- Local LLM | MCP Integration

PROFESSIONAL EXPERIENCE

VTG Defense | Readiness Data Analyst – Systems Analyst II

04/2024 – Present

- Engineered 27 governed data sources, 53 Tableau dashboards, and 21 Tableau Prep flows supporting V-22 fleet readiness; automated weekly/monthly ETL pipelines that eliminated manual data pulls and reduced processing time by up to 85% (12+ min to under 3 min).
- Developed production SQL pipelines in the NAE Standard Data Repository (SDR) on Cloudera/Hadoop (Impala, Hive, YARN), replacing legacy manual Deckplate downloads with daily-refreshing, enterprise-wide datasets consumed across Tableau, Qlik, and Power BI.
- Reviewed and migrated 225 Tableau dashboards from legacy Tableau Common sources to SDR counterparts, resolving broken fields, naming convention discrepancies, and data integrity issues across each workbook's average of five data sources.
- Built advanced readiness analytics delivering NMC/NMCM/NMCS trending, rolling 3- and 12-month rankings, CPFH and MTBF metrics, PMIC bow-wave forecasts, and 7-day fleet readiness dashboards for the CMV-22B fleet, providing executive leadership real-time visibility into fleet health and maintenance priorities.

US Navy | Port Operation Director

09/2022 – 03/2024

- Spearheaded the implementation of a Tableau-based financial dashboard, using advanced data visualization techniques to enhance budget tracking and resource allocation efficiency by 25%.
- Delivered 20+ executive-level briefings on complex financial data, employing advanced data communication techniques to guide strategic decision-making processes.
- Streamlined operational processes and resource management, introducing automated workflows that enhanced software application efficiency by 20%.

US Navy | Surface Operations Director

08/2021 – 08/2022

- Enhanced operational efficiency and system readiness by 30% through targeted data analysis and strategic resource allocation, utilizing Six Sigma methodologies.
- Led the overhaul of the Selection and Application Process, implementing Lean principles to realize \$50K in cost savings by optimizing workflows and reducing overtime expenses.
- Maintained strict RMF compliance, reinforcing high security and operational standards, resulting in a 15% reduction in security incidents.

US Navy | Aircraft Division Director

03/2018 – 08/2021

- Utilized advanced data analysis techniques, such as regression analysis, to streamline aircraft repair processes, achieving a 28% cost reduction and significantly improving asset management.
- Implemented a strategic inventory analysis and resource allocation plan using predictive analytics, ensuring the availability of 52 aircraft engines and minimizing downtime by 20%.
- Led the development of performance metrics and training programs using data-driven insights, boosting workforce productivity by 22% and increasing aircraft availability to 98%.

US Navy | Navy Oil Analysis Program Manager**03/2018 – 08/2020**

- Launched a spectrometric oil analysis program using Excel and VBA, reducing financial risks by 15% and enhancing aircraft performance forecasting through predictive maintenance insights.
- Applied survival analysis techniques and Kaplan-Meier estimators to refine maintenance strategies, optimizing part replacement budgets and improving analytical methods, leading to a 20% reduction in unscheduled downtime.
- Demonstrated expertise in data-driven decision-making, using statistical models to enhance operational efficiency and asset readiness across the fleet, increasing readiness by 15%.

US Navy | Gas Turbine Engine Test Facility Program Manager**03/2018 – 03/2020**

- Ensured 100% operational availability of 46 F414 engines through meticulous software-hardware integration, utilizing Microsoft Server systems and managing Commercial off-the-shelf (COTS) engineering applications, and implementing automated monitoring systems.
- Designed and executed a data-driven training strategy as the only Subject Matter Expert, enhancing team skills and efficiency via Excel PivotTables and Power Query, significantly advancing organizational development and increasing team efficiency by 25%.
- Demonstrated exceptional ability to lead technical teams and manage critical engineering assets, directly contributing to a 20% improvement in operational systems maintenance and reliability.

US Navy | Command Financial Specialist Program Manager**09/2018 – 09/2019**

- Drove a 27% increase in retirement savings plan participation through strategic initiatives and targeted stakeholder engagement, showcasing strong program management and communication skills.
- Developed and delivered 24 financial literacy workshops using detailed data analysis and interactive learning methods, improving organizational financial acumen and demonstrating an ability to educate and inform diverse teams.
- Provided personalized financial counseling to over 2,800 personnel, utilizing data-driven financial planning tools and techniques, underlining my strength in one-on-one support and aligning with customer service excellence in a technical support context.

US Navy, Advanced Skills Aviation Mechanic Course Director**07/2015 – 02/2018**

- Elevated training efficiency by 22% through curriculum optimization and managed assets worth \$75M, demonstrating exceptional resource optimization and strategic program oversight.
- Led a comprehensive training program for 31 instructors and 1,680 students, achieving a 99% graduation rate through effective resource allocation, innovative scheduling, and blended learning techniques.
- Initiated and implemented curriculum enhancements using Microsoft Applications and data analytics, significantly improving the quality and relevance of over 100 training modules, aligning with continuous improvement principles and increasing training effectiveness by 20%.

EDUCATION**University of Maryland Global Campus (UMGC) Bachelor of Science in Artificial Intelligence (Developer)**

- Projected Graduation Jan 2027
- 102/120 credits completed (including 53 transfer credits)
- Dean's List, Phi Kappa Phi Honor Society

PROFESSIONAL TRAINING | CERTIFICATIONS

- Google Data Analytics Certificate (Coursera)
- Google Cybersecurity Certificate (Coursera)
- Machine Learning Specialization (Coursera)

SOFT SKILLS

- Problem-Solving
- Decision-Making
- Critical Thinking
- Time Management
- Willingness to Learn
- Adaptability
- Leadership
- Empathy
- Active Listening
- Customer Service
- Teamwork Collaboration
- Communication