

# MATTHEW HARDY

Data Engineering & Analytics | Full-Stack Automation | AWS Cloud & Security

Greater Harrisburg Area

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## SUMMARY

Data Analyst and Software Developer with 3+ years at Amazon and 15+ years across analytics, automation, and cybersecurity. Builds data pipelines, automated reporting platforms, and full-stack applications using Python, SQL, VBA, and JavaScript. Track record of delivering measurable operational impact — from reducing manual processes by 83% to launching fulfillment facilities end-to-end. Certifications in Cybersecurity, Software Development, and Cloud Engineering. Bachelor's in Computer Science in progress at Western Governors University.

## EXPERIENCE

### Amazon — 3 years 6 months

**Data Analyst** | August 2024 – Present | United States

- Spearheaded an end-to-end facility launch — from legacy decommission to full operational standup — owning capacity planning, zone configuration, and process validation with zero critical disruptions.
- Led a full-scale infrastructure audit of a 1M+ sq ft facility, resolving over a decade of capacity misalignment — restructuring layouts, correcting system-to-physical discrepancies, and optimizing pathing to protect SLAs and associate safety.
- Built a real-time capacity management platform with automated controls across drop zones and pick areas, eliminating overflow incidents and transforming reactive safety responses into preventive operations.
- Developed a network-wide inventory governance platform with automated daily reporting, giving leadership visibility into revenue leakage and enabling targeted corrective actions at scale.
- Designed a regional compliance monitoring system that surfaced real-time accountability metrics, enabling operations teams to enforce standard work consistency across a newly established network.
- Architected automated safety reporting systems using SQL that proactively identified and rerouted high-risk packages, directly reducing workplace injuries.
- Created executive-facing analytics using QuickSight that distilled complex operational data into decision-ready insights for senior leadership.
- Delivered automation tools that eliminated manual pick path planning and bulk inventory processing, reclaiming associate hours and accelerating fulfillment throughput.
- Partnered with AWS security and engineering teams to resolve critical (Sev2) vulnerabilities with rapid turnaround, maintaining system integrity under tight SLAs.

**Supervisor** | March 2023 – August 2024 | United States

- Developed automation macros that reduced a 1-hour manual process to 10 minutes — an 83% efficiency gain adopted across team workflows.
- Independently identified and built automation solutions that reclaimed significant operational hours for strategic initiatives.

**Problem Solver / Ambassador** | November 2022 – March 2023 | United States

- Served as Subject Matter Expert conducting audits and managing AWS programs (FC Research, GraVis, Eagle Eye) to support operational excellence.
- Directed and coached associates, delivered training, and authored standard work procedures to improve team performance and workflow accuracy.

### Self-Employed

**Investment Analyst** | June 2010 – Present | United States

- Built proprietary financial analysis tools using thinkScript for rapid interpretation of chart patterns across day and swing trading strategies.
- Automated real-time news collection via APIs for 50+ companies, augmenting fundamental analysis with comprehensive market event coverage.
- Applied advanced technical analysis (Regression, Wyckoff Accumulation/Distribution) to enhance predictive modeling informed by

macroeconomic indicators.

## Scientific Games

**Analyst** | January 2014 – August 2017 | United States

- Enhanced lottery machine monitoring using expertise in Random Number Generators and security features, improving anomaly detection by 15%.
- Streamlined automated machine update cycles, reducing technology deployment times by 20%.
- Maintained stringent security clearance and protocols for systems critical to lottery integrity.

## EDUCATION

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### **Bachelor of Science, Computer Science**

Western Governors University | 2025 – 2027

### **Certification, Cybersecurity**

Correlation One | 2024

### **Honors Certification, Software Development**

Correlation One | 2023

### **Certification, Cloud Engineering**

AWS Cloud Institute / Skillbuilder | 2023

## TECHNICAL SKILLS

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**Languages:** Python, SQL, VBA, JavaScript, HTML, CSS

**Tools:** Amazon QuickSight, Tableau, Power BI, MS Excel, Selenium

**Cloud & Security:** AWS (IAM, S3, EC2, CloudWatch), Cybersecurity, Risk Management

**Platforms:** FC Research, GraVis, Eagle Eye, BinConf, Stowmap