

## Jon William Taylor

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<https://github.com/JWT890> | <https://jwt890.github.io/website/>

### Summary of Qualifications

Highly driven cybersecurity and IT professional with expertise in system administration, network security, risk management, and project management. Proficient in Python, Bash, Windows 10/11, Linux, Microsoft Office 365, Active Directory, and RMF, with strong skills in assessing security infrastructure and solving complex problems. Effective verbal & written communicator with excellent multitasking and attention to detail, thriving in both independent and collaborative environments. Eligible to obtain and maintain a security clearance.

### Professional Experience

#### IT Technician Project Team Technician

January 2025-March 2025

Cyburity, Huntsville, AL

*Role impacted by contract non-reward; role concluded as a result of project transition.*

- Delivered responsive IT support and troubleshooting for 25+ clients, resolving hardware, software, and network issues to maintain optimal system performance by 50%
- Developed database to identify and prioritize top 80/20 security problems, improving resource allocation and response efficiency by 50%.
- Identified and remediated system and security vulnerabilities, reducing potential risks by improving network reliability by 35%.
- Utilized problem-solving skills to diagnose complex technical problems, implementing effective solutions that minimized downtime and boosted user productivity by 80%.
- Communicated technical information clearly to end users, ensuring understanding of solutions and best practices.
- Collaborated with cross-functional teams to enhance system security, strengthen processes, and improve user experience by 50%.

#### Cybersecurity Specialist Intern Technical II

September 2023 – December 2025

SAIC, Huntsville, AL

*Internship concluded; full time position not available due to budget constraints*

- Developed and executed unit tests using Jest and Unittest for Python 3.11 and JavaScript, ensuring robust code validation and reliability.
- Analyzed and implemented unit test recommendations to optimize software performance and maintainability.
- Used Happy Scribe, an AI-powered transcription tool, to accurately transcribe and refine instructional video transcripts, enhancing accessibility and content clarity.
- Effectively communicated test strategies, findings, and insights to stakeholders through comprehensive reports and presentations.

#### Intern

March 2018 – August 2018

Dragonfly Strategies, Inc, Huntsville, AL

*Completed internship and commenced college studies*

- Collaborated with organizational sponsors and cross-functional teams to identify, analyze, and refine supply chain and logistical requirements aligned with program objectives.
- Streamlined inventory management processes by implementing standardized tracking systems, optimizing storage layouts, and reducing material retrieval time.
- Coordinated procurement, distribution, and logistical support to ensure seamless program execution, eliminate bottlenecks, and maintain 100% on-time delivery for all scheduled operations.

## Education & Certifications

**Bachelors of Science in Business Administration,** Grad December 2023

University of Alabama in Huntsville, College of Business, Huntsville, Alabama

Major: Information Systems, Cybersecurity

**CompTIA Security+ CE**, #L6N9QPGSMNEE1FWR, exp. February 2029

**TestOut Linux Pro**, #6-1C6-VAJU9N

**(ISC)<sup>2</sup> Certified in Cybersecurity**, #1576415, exp. March 2027

## Key Skills

- Python, JavaScript, Vue, HTML, C++, Bash
- Linux (Kali, Ubuntu, Rocky, Mint), Windows 10/11, Agile, SQL, MySQL, Server, Git, AWS, Cisco Packet Tracer, Nessus, Wireshark, Active Directory, ServiceNow, Jira, Atera, Microsoft Office Suite, Elastic Stack, Technical Writing, Proposal Writing, RMF, Automation, Troubleshooting, Scripting, NIST, Networking, Customer Service, Linux & Windows System Administration, Group Policy, End User Support, User Account Management, Research & Analysis, Stakeholder Collaboration & Communication, Unit Testing, Nessus, OpenVAS, Splunk, Computer & System Imaging, Log Analysis, Trend Analysis, Project Support, SharePoint, Systems Analysis, Report Analysis, Reporting, Report Writing, Data Analysis, Data Gathering & Review, Root Cause Analysis, Problem Analysis, Network Support, SDLC, Code Review & Analysis, Burp Suite, Software Installation & Configuration, STIG Viewer, Inventory Management, Windows Server, eMASS, POA&M, Exchange, TheHive, SAP, Business Writing, Outlook, Visual Studio Code, VMWare, Virtualization, VirtualBox, Process Support, Systems Analysis, Windows Server, firewalld, Routing, Switching, Event Analysis, Alert Analysis, Incident Response, Desktop Support, Help Desk Support, IT Support, Hardware Support, Requirements Gathering & Analysis, Information Gathering & Analysis, Data Entry, Database Management, Database Support, System Support, Risk Analysis, Intune, Windows Server, Cost & Price Analysis, Market Research, Market Analysis, Business Analysis, Mobile Device Support, MDM, CMMC, Peripheral Support, VPN Support, Customer Support, WSUS, Autopsy, Remote Support, Splashtop, RDP, Baselining, Technical Analysis, Program Support, Record Keeping, Operational Support, Procurement Support, Process Review & Analysis, Progress Reporting, Event Support, End User Training, Application Support, Velociraptor, Business Analysis, VPN Support, VPN Installation & Configuration, Docker, Software Troubleshooting, Network Troubleshooting, NetFlow, MISP, System Installation & Configuration, License Management, System Support, System Management, Traffic Analysis, Network Analysis, Teams, Group Management, Employee Training, Permission Management, Report Analysis, Result Analysis, Device Management, Device Setup & Installation, Database Management, Database Support, Database Administration, Microsoft Office 365, Client Support, Onsite Support, Baseline Management, Version Control Management, Progress Review & Analysis, Metric Analysis, Performance Analysis, Trend Reporting & Analysis, Diagnostic Analysis, Failure Analysis, Error Analysis, Confluence, RDP, Okta, Technical Analysis, Microsoft Office 365 User Administration, VLAN Configuration & Support, TCP/IP, DNS, DHCP, Operating System Support, Operational Support, Workstation Support, Wi-Fi Setup & Troubleshooting, PC Support, Laptop Support, LAN/WAN, S3, EC2, VPC, Bash Scripting, Shell Scripting, Nmap, VirusTotal, Volatility, Redline, Zeek, tcpdump, OWASP ZAP, FTK Imager,

## Projects

### Active Directory via PowerShell

- Orchestrated deployment of Active Directory organizational units, OUs, to optimize user and business function management by 100%
- Automated the creation and integration of 1000 user accounts in Active Directory using

- PowerShell scripts.
- Enforced secure account management practices, including password policies, expiration limits, activity monitoring, and two-factor authentication to strengthen compliance by 80%.

#### **Nessus Vulnerability Scanner**

- Configured Nessus scanner and Windows 10 VM to perform comprehensive vulnerability assessments.
- Detected and remediated 75+ critical security flaws in Firefox, enhancing overall security posture by 100%
- Compiled detailed vulnerability reports and resolved 152 system vulnerabilities in alignment with recommended actions.

#### **PowerShell File Integrity Monitor**

- Developed and validated five dynamic PowerShell scripts to track file integrity and text modifications across platforms.
- Monitored file changes and evaluated user access according to the least privilege principle.

#### **Enterprise Network Design Project (University of Alabama in Huntsville)**

- Designed and implemented enterprise network architecture, integrating routers, switches, workstations and encryption devices for seamless connectivity.
- Configured and coordinated IP-based network devices, ensuring resilience, stability and secure access to application server.
- Demonstrated advanced network expertise in deployment, configuration, and operational testing of network infrastructure.

#### **Ubuntu STIG Automation Project (University of Alabama in Huntsville)**

- Engineered a robust Bash script to streamline the automated identification of Security Technical Implemented Guides (STIGs) within the Ubuntu operating system.
- Detected and remediated 8 vulnerabilities (3 high, 5 medium), ensuring compliance with DoD benchmarks by 60%

#### **Bash Risk Framework Automation Scripts**

- Developed and deployed automation scripts to streamline RMF documentation, including System Security Plans (SSPs), Standard Operating Procedures (SOPs), and Security Assessment Plans (SAPs).
- Optimized compliance workflows, reducing manual processing time and enhancing accuracy in risk reporting and compliance tracking by 50%.

#### **Python Wireshark PCAP Analyzer**

- Developed and implemented a Python based solution for PCAP file analysis, optimizing network traffic visibility and streamlining data processing workflows by 60%.
- Leveraged the Scapy library to extract, parse, and interpret complex packet-level data.

#### **IT Repetitive Task Automation Scripts**

- Developed a collection of Python, C++, Bash, and JavaScript scripts to automate repetitive IT tasks, enhancing efficiency and productivity by 60%
- Implemented scripts for tasks such as file management, system monitoring, and network configuration.

#### **AWS S3 Nginx Server on Linux**

- Built and documented an AWS-based NGINX web server project to demonstrate practical cloud and Linux server provisioning skills, including NGINX installation and configuration on a Linux VM.
- Integrated AWS S3 for static content management, using AWS CLI and IAM credentials to sync files between S3 buckets and the web server's file system.
- Configured NGINX to serve content from synchronized S3 storage, showcasing competency in networking, server setup, and content delivery in a cloud environment.

#### **JavaScript Static Patch Monitor Site**

- Developed a JavaScript/Vue static application for real-time system patch monitoring dashboards, prioritizing front-end functionality by 95%

- Implemented full development and deployment tooling, including build, serve, and lint scripts, achieving complete coverage.
- Streamlined system monitoring processes, enhancing visibility and operational efficiency for end-users and stakeholders by 60%

### **Vue.js Password Checker**

- Developed a Vue.js application for password strength validation, demonstrating expertise in front-end development and security-focused input handling.
- Designed and implemented a user-friendly interface to clearly communicate password strength feedback to users.

### **Python RSS Feed Reader**

- Developed a Python program to read and process RSS feeds, demonstrating efficient real-time information tracking and analysis.
- Leveraged the Feedparser library to parse and extract structured data from diverse RSS sources.
- Implemented a user-friendly interface to clearly present extracted information, enhancing usability for end-users.
- Integrated automated testing and deployment via GitHub Actions and a CI/CD pipeline, ensuring reliable updates and streamlined workflows by 50%

### **Compliance Automation Scripts**

- Created compliance automation scripts to assess system adherence to regulatory standards like NIST 800-53 and NIST 800-171, automating control checks using Bash and Python.
- Automated verification of security controls (e.g., least privilege enforcement, password policies, audit logging, and patch status) to streamline compliance reporting and reduce manual effort by 100%
- Developed reusable scripts to check system configurations (file permissions, baseline settings, encryption, and update status), enhancing continuous compliance monitoring by 40%

### **Python Stock Market Reader**

- Developed a Python program to read and process stock market data, demonstrating proficiency in data analysis and visualization.
- Integrated the AlphaVantage API to fetch real-time stock data and present it through a user-friendly interface for improved accessibility.

### **Linux User Group Automated Management System Scripts**

- Built a Linux user and group automated management system using Bash and Python, streamlining identity and access tasks by automatically creating, modifying, and assigning users to groups based on structured input.
- Developed robust scripting to handle user provisioning, group assignments, and system configuration checks, reducing manual administration effort and improving consistency across environments by 100%
- Integrated logging and validation mechanisms to track actions and ensure reliable execution of user/group operations, enhancing auditability and maintainability by 60%

**See GitHub for other projects**