BHANU PRATHAP SHOURYA VARKURU

Cybersecurity | Governance, Risk & Compliance | Security Automation

Baltimore, MD | Open to Relocation | 667-431-6333 | bvarkur1@umbc.edu | LinkedIn | GitHub | Portfolio

SUMMARY

Information security professional focused on risk, compliance, vulnerability remediation, and access governance. Skilled in Python and Go automation, with hands-on GRC remediation and NIST-based risk assessment training.

EDUCATION

University of Maryland, Baltimore County — Aug 2025 – Present
M.S. Cybersecurity — GPA: 3.88/4.0

Kalasalingam Academy of Research and Education, India — Aug 2021 – May 2025
B.Tech. Computer Science and Engineering, Cybersecurity specialization — GPA: 8.51/10

TECHNICAL SKILLS & CERTIFICATIONS

Build & operate: Go, Python, Bash, PHP, Git, SFTP, Linux, AWS, WordPress, Pantheon, Docker, Redis, SQLite.
Security: Vulnerability management, IAM, access governance, Nessus, Burp Suite, Microsoft Sentinel, KQL; TCP/IP, DNS, HTTPS/TLS, VPNs, firewalls.
Frameworks & standards: NIST CSF, NIST SP 800-53, CIS Controls, MITRE ATT&CK, SOC 2, GDPR, CCPA, WCAG.
Certifications: CompTIA Security+ | ISC2 Certified in Cybersecurity (CC) | eJPT
Professional development: CISA | in active preparation

EXPERIENCE

Graduate Assistant | Security Operations & GRC Support — Jun 2026 – Present
UMBC Albin O. Kuhn Library & Gallery — Baltimore, MD

- Lead ongoing Library website vulnerability triage and remediation with UMBC GRC; performed WCAG accessibility work, troubleshot authentication issues, and coordinated DNS, TLS, and CORS work with DoIT.
- Lead Library & Gallery website migration and WordPress multisite flattening; independently manage Pantheon Dev, Test, and Live environments, Git/SFTP operations, Linux permissions, and custom PHP maintenance.
- Enabled staff to upload XML finding aids through the WordPress dashboard by building a custom parsing plugin; work on ElasticPress and a Library chatbot, with indexing-log and telemetry review for troubleshooting.
- Develop operations and migration playbooks, handle RT tickets, and configure Archive-It for Library preservation; broader UMBC and faculty web archives remain prospective scope.
- Led the hiring process for a new candidate supporting the Library's work.

Cybersecurity Clinician | In Training — Jan 2026 – Present
UMBC Cybersecurity Clinic — Baltimore, MD

- Received training in **NIST CSF 2.0** and **NIST SP 800-53 Rev. 5** control implementation and assessment methodologies.
- Practiced simulated risk assessments, drafted baseline System Security Plans, and mapped remediation roadmaps for case studies.
- Studied vendor-risk frameworks and evaluated data-flow diagrams through training exercises.

Co-Founder & Information Security Engineer — Jun 2023 to Jun 2025
Postdev Infosec — India

- Reduced manual audit effort by **40 percent** by building Go and Python scripts for system hardening checks and patch validation.
- Identified and helped remediate **25+ vulnerabilities** across client environments through penetration testing and configuration review.

Cyber Investigator Volunteer — Jun 2022 to Dec 2022
Telangana Police Department (Cyber Crimes Division) — India

- Supported active IP theft investigations by analyzing **50+ network logs** and metadata with OSINT tools to map digital footprints.

PROJECTS

Vanguard | Security Policy Impact Analysis GitHub Sep 2026

- Automated security-policy decisions by building a Go CLI and local browser gate that validates normalized JSON findings against YAML severity limits and exports SHA-256-linked decision evidence.
- Made policy changes reviewable through before/after verdict comparisons and relaxed-limit flags, including changes that leave sample verdicts unchanged.
- Connected policy evaluation to CI workflows with explicit pass/fail/error exits, JSON decision and impact exports, and optional Slack failure summaries.

S3 Bucket Auditor | Remediation Verification GitHub Jun 2026

- Built a read-only AWS configuration review tool covering bucket-policy public status and bucket-level Public Access Block, with bounded concurrent checks and browser/CLI workflows.
- Implemented account/region-scoped history replay and per-control comparisons that retain unresolved concerns across denied or missing inspections and record successful clearing evidence.
- Produced JSON verification records linking original configuration concerns, inspection gaps, flag changes, and clearing evidence; added reviewed Jira handoff with durable create intent.

LogFlow | Failed-Login Investigation GitHub Mar 2026

- Built bounded concurrent parsing and ordered event-time windows to detect repeated failed logins per IP, with configurable thresholds and explicit rejected-record and incomplete-result reporting.
- Attached contributing line numbers, timestamps, normalized IPs, and input hashes to alerts; added evidence-based threshold/window sensitivity and deterministic replay scenarios exposing rule blind spots.
- Supported investigation handoff with browser/CLI workflows, JSON evidence exports, and reviewed Jira delivery; replay scenarios illustrate evasion and benign repeated-login triggers.

CredDrift | Credential Evidence Tracking GitHub Jan 2026

- Built local credential discovery with pattern matching, entropy scoring, SHA-256 identity grouping, and file/line evidence without persisting raw candidate values.
- Preserved findings across failed scans through transactional reconciliation and evidence timelines that distinguish candidates absent from checked files from locations not inspected.
- Added a local browser interface, metadata JSON exports, ignore/restore actions, and optional Jira handoff with persisted create intent to guard against duplicate ticket creation after uncertain delivery.

LEADERSHIP AND ACCOMPLISHMENTS

DawgCTF Apr 2026

- Competed solo; placed in UMBC's top five.

President, Photography Club (KARE) 2024 – 2025

- Engaged **17,000+ participants** by organizing large-scale events including Wanderlust and Sparkz.
- Published Photography Club Magazine archived in University Library.

Chairperson, ACM KARE Chapter 2024 – 2025

- Led the chapter to win the **Outstanding Recruitment Program Award** nationally.
- Organized two hackathons, an ideathon, and multiple online security events.