

Hector Borges

HectorBorges.com
contact@hectorborges.com
linkedin.com/in/hectorjborges



Cybersecurity Candidate | Army Veteran | Strategic Leader

Cybersecurity professional and Army Veteran with 14+ years of leadership in high-tempo, mission-critical environments. Skilled in vulnerability assessment, digital risk mitigation, and enterprise security operations. Strong academic foundation (B.S. Cybersecurity, 4.0 GPA) with ongoing graduate studies in Cyber Operations. Experienced with Zero Trust architecture, Active Directory security, and AI-driven anomaly detection. Active ISSA and ISACA member committed to advancing cybersecurity readiness and protecting organizational assets.

Projects & Publications

CyberSense Newsletter

Creator and author of CyberSense, a recurring digital awareness briefing focused on emerging cyber threats, attack trends, and professional development. Each edition integrates Opening Notes, a Situational Awareness Scan, a Training Byte with practical security tips, a Career Development segment, and a Modernization & AI Insight. Supported by the CyberSenseProbe research tool, the newsletter transforms complex cybersecurity topics into clear, actionable insights for readers.

CyberSenseProbe

Developed a custom cybersecurity intelligence-gathering application that aggregates news from curated industry sources. Features include keyword-based search, real-time threat monitoring, and automatic article summarization displaying title, source, and key insights. The tool significantly accelerates research workflows for producing the CyberSense Newsletter and staying ahead of emerging threats.

Research Publication — IoT Security

Mitigating Digital Risk Across the Expanding IoT Ecosystem

Preprint, ResearchGate, Nov 2025

DOI: 10.13140/RG.2.2.35149.09447

Authored a comprehensive analysis of IoT security risks, examining authentication weaknesses, insecure communication pathways, firmware vulnerabilities, and privacy challenges. Proposed layered mitigation strategies aligned with NIST IR 8259r1 and NIST IR 8425, emphasizing encryption, secure boot, automated patching, network segmentation, and anomaly detection. Evaluated real-world implementations in commercial IoT devices to demonstrate practical applicability of recommended safeguards.

Enterprise Security Architecture – Healthcare Network

Designed a HIPAA- and NIST-aligned Zero Trust architecture for a healthcare system spanning six hospitals. Integrated SIEM capabilities, network segmentation, and structured incident response processes to enhance threat visibility, regulatory compliance, and organizational resilience.

Active Directory Deployment – Medical Group

Engineered a secure multi-site Active Directory environment with PKI integration and hardened GPO hierarchies. Improved identity lifecycle management, authentication controls, and compliance alignment across a distributed medical organization.

Technical Skills

- **Security & Compliance:** Network Security, Identity & Access Management (IAM), Incident Response, Policy Development, Firewall Configuration, HIPAA/NIST Frameworks
- **Systems & Administration:** Active Directory, Linux, Group Policy Objects (GPO), PKI, System Troubleshooting
- **Programming & Data:** Python, Network Scripting, Database Management, TensorFlow, PyTorch, Power BI
- **Emerging Technology:** AI/Machine Learning (AI/ML), Anomaly Detection, Generative AI

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Certifications & Training

- CompTIA Security+
- Lean Six Sigma Yellow Belt
- NVIDIA – Generative AI with Diffusion Model
- NVIDIA – Application of AI to Predictive Maintenance
- NVIDIA – Anomaly Detection
- NVIDIA – Deep Learning
- McGraw Hill Yellow Belt – Microsoft Suite

Professional Experience

ECPI University – San Antonio, TX

Information Systems Assistant

Sep 2023 – Sep 2024

- Provided tier 1/2 technical support for 30+ users, leveraging Active Directory (AD) for Identity and Access Management (IAM) to ensure data confidentiality and system availability.
- Executed hardware and software troubleshooting to resolve complex system issues, minimizing user downtime and improving overall device performance.
- Assisted in the development of IT policies and provided curriculum support, reinforcing compliance protocols and embedding security best practices across departmental operations.

U.S. Army

Planner / Operations Sergeant

Jan 2017 – Aug 2018

- Refined Standard Operating Procedures (SOPs) for mission-critical systems, strengthening incident handling protocols and enhancing organizational readiness.
- Coordinated the deployment and sustainment of personnel and resources for multinational operations, utilizing structured planning to surpass key operational benchmarks.
- Enhanced system administration and incident response training protocols, reinforcing technical expertise and promoting efficient collaboration across international partners.

U.S. Army

Instructor / Platoon Sergeant

Sep 2014 – Jan 2017

- Directed comprehensive training for 51 personnel, embedding formal risk management and incident response drills into daily operational procedures.
- Managed an inventory of over \$25 million in sensitive assets, ensuring strict operational compliance and technical mission readiness.
- Led complex interoperability exercises with NATO allies, applying security principles to improve the resilience and joint operational effectiveness of distributed systems.

Education

- **Master of Science in Cybersecurity**, Cyber Operations
ECPI University (Expected May 2026)
GPA 4.0
- **Bachelor of Science in Computer Science**, Cybersecurity & Information Security Technologies
ECPI University January 2025
Summa Cum Laude

Awards & Professional Affiliations

Military Awards

- Bronze Star Medal (BSM)
- Meritorious Service Medal (MSM)
- Combat Action Badge
- Master Parachutist Badge

Professional Affiliation

- Information Systems Security Association (ISSA)
- Information Systems Audit and Control Association (ISACA)