

Patrick Selby

pselby@gsumail.gram.edu | +1 (614) 332-6860 | [LinkedIn](#) | [Github](#)

CAREER OBJECTIVE

Sophomore Cybersecurity student seeking hands-on exposure to security operations, risk analysis, and defensive security practices through industry-aligned programs and professional development opportunities.

EDUCATION

Grambling State University – Grambling, LA

B.S. Cybersecurity (Minor: Computer Information Systems (CIS) | **GPA: 3.9/4.0**

Jan 2025 – Dec 2028

Relevant Coursework:

Attacks, Threats, and Vulnerabilities (CompTIA Security+ SY0-701 aligned), Discrete Structures, Data Structures & Algorithms (In Progress), Probability & Statistics I (In Progress), Calculus I

TECHNICAL SKILLS

Cybersecurity & Systems: Linux CLI, Network Fundamentals, Nmap, Wireshark, Basic Incident Response, Vulnerability Assessment (Foundational)

Cloud & Platforms: AWS (EC2, S3, IAM)

Programming & Data: Python, SQL

Version Control: Git, GitHub

EXPERIENCE

IoT Cyber Defense Extern (Simulated) – Extern / Hydroficient (Remote)

- **Mapped an end-to-end IoT system** by analyzing **10+** simulated data flows (sensor telemetry, control commands, and cloud ingestion paths) to identify **multiple potential attack surfaces** in a water-monitoring environment.
 - **Evaluated security risks** across **3 core control areas** (encryption in transit, device authentication, and access control) under guided adversarial scenarios, identifying weaknesses tied to replay and interception attacks.
 - **Documented mitigation strategies** for **5+ identified risk scenarios**, aligning recommendations with critical-infrastructure and IoT security best practices.
-

PROJECT

AWS Incident Response Lab

- **Investigated a simulated cloud security incident** by reviewing **100+ CloudTrail log events** using JQ, leading to the identification of a publicly **exposed S3 bucket** and **misused IAM credentials**.
 - **Reduced incident investigation time** by correlating **API activity, source IPs, and affected resources** to isolate indicators of compromise within a single analysis workflow.
 - **Improved cloud security posture** by implementing **3 remediation actions** (restricting bucket access, rotating credentials, and enforcing least privilege) aligned with incident response best practices
-

CERTIFICATIONS

AWS Academy Cloud Foundations (AWS, Apr 2025) | **Google Cybersecurity Specialization** ([Foundations of Cybersecurity](#), [Play It Safe: Manage Security Risks](#)) – 2025 | **IBM SkillsBuild** ([AI](#), [Data](#), [Cybersecurity](#)), 2025

AFFILIATIONS

ColorStack | NSBE | IEEE | Honor Society® | S.E.C.U.R.E. Cybersecurity Club (GSU) | The Lantern Network (Career & Mentorship) | National Society of Leadership and Success (NSLS) | National Association of Black Accountants (NABA)