

Sergio Rodriguez

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PROFESSIONAL SUMMARY

Cybersecurity student at Iona University with hands-on experience in vulnerability assessment, network security, blue team analysis, and cloud infrastructure. Holds industry certifications including Cisco Certified in Cybersecurity (CC) and ISC2 Candidate status. Built and deployed multiple production-grade security tools independently, applying NIST frameworks, MITRE ATT&CK, and secure development practices. Proficient in Python, Bash, PowerShell, AWS, GCP, Docker, and Kali Linux environments.

EDUCATION

Iona University

New Rochelle, NY

Bachelor of Science, Cybersecurity, Security Threat and Analysis. Merit Scholarship: \$23,000 |

May 2030

Alumni Award: \$1,000 | Gael Service Award: \$1,000 | Spirit and Performing Arts Award.

Relevant Coursework: Network Security, Threat Analysis, Operating Systems, Computer Architecture, Calculus for Computing

EXPERIENCE

Associate, Sales Floor and Customer Service

Nov 2024 – Jan 2025

Kohl's

Wappingers Falls, NY

- Processed 100+ daily customer transactions with accuracy across POS systems while maintaining department organization.
- Recognized by shift managers for reliability during peak-season rush; consistently assigned to highest-traffic floor sections.

Water Park Staff, Guest Safety and Operations

May 2023 – Sep 2023

Splashdown Beach

Fishkill, NY

- Monitored guest safety across high-volume attractions, enforcing protocols for a facility serving thousands of daily visitors.
- Collaborated with a team of 30+ staff to coordinate operations, manage peak-hour queues, and de-escalate guest incidents.

PROJECTS

VaultForge, Secure Password Manager

2025

- Built a fully local, offline password manager using AES-256-CBC encryption with no cloud storage or third-party dependencies.
- Implemented NIST SP 800-63B password entropy scoring, HIBP k-anonymity API for breach detection, and secure clipboard clearing.
- Designed modular Python architecture with AES and XOR cipher modes, HMAC integrity verification, and sandboxed file ops.
- Stack: Python 3.11, cryptography library, argparse CLI.

CivicPulse, Open Government Data Dashboard

2025

- Designed and deployed a full-stack web application consuming the U.S. Census Bureau ACS 5-Year API, serving live data for all 50 states.
- Implemented async data ingestion via httpx with a TTL-based in-memory cache layer, eliminating redundant API calls without Redis.
- Built CI/CD pipeline on GitLab with SAST analysis and secret-detection enforcement on every merge.
- Stack: FastAPI, Uvicorn, Docker, GitLab CI/CD, Chart.js, Jinja2; WCAG 2.1 compliant.

LicenseLoop, License Renewal Automation Platform

2025

- Developed a SaaS platform tracking business license expirations, triggering automated email alerts at 30, 7, and 1 day out.
- Implemented user authentication, tiered subscription plans, and Stripe billing with cron-secured endpoint access control.
- Containerized the full stack with Docker and deployed with production-grade configuration; zero manual intervention post-launch.
- Stack: FastAPI, SQLAlchemy, Docker, Stripe API, Python 3.11.

RangeCheck, Authorized Network Exposure Assessment Tool

2025

- Built an authorized exposure assessment tool with async service discovery, lightweight fingerprinting, YAML-based finding classification, CVSS metadata, and HTML, JSON, and CSV reporting.

ControlTrace, Local Baseline Assessment Tool

2025

- Developed a DISA STIG-style local baseline assessment tool that collects evidence, maps controls to NIST SP 800-53 and MITRE ATT&CK, and generates HTML, JSON, CSV, and POA&M reports.

Tracer, Threat Intelligence Pipeline

2025

- Built a threat intelligence pipeline for feed ingestion, enrichment, graph loading, Elasticsearch search, Neo4j correlation, and Flask API queries.

Personal Portfolio, Terminal-Themed Cybersecurity Site

2024 – 2025

- Designed and deployed a multi-page portfolio featuring a custom ASCII boot sequence, CTF writeups with working Python PoC code, and live-hosted project demos.
- Deployed to Cloudflare's global edge network via Cloudflare Pages with a terminal-themed cybersecurity interface.
- Stack: HTML, CSS, Vanilla JS, Cloudflare Pages; live at sergrdz.pages.dev.

ACTIVITIES & LEADERSHIP

Dutchess Outreach Lunchbox Program

Summer 2024

Food Service Volunteer

- Prepared and distributed meals to underserved community members; 10+ hours of direct service during county volunteer week.

Loan Closet, Poughkeepsie Reformed Church

Summer 2024

Medical Equipment Assistant

- Assisted elderly and mobility-impaired clients with borrowing, fitting, and returning medical equipment including canes and walkers.

CERTIFICATIONS

- Cisco Certified in Cybersecurity (CC)
- ISC2 Candidate, Associate of ISC2
- Blue Team Junior Analyst, Centri Security
- Penetration Testing, Centri Security
- OSINT Fundamentals, Centri Security
- Python Programming, Centri Security
- Dark Web Operations, Centri Security
- PowerShell for Security, Centri Security
- Anthropic: Building with the Claude API
- Anthropic: Claude Platform 101
- Anthropic: AI Fluency Framework and Foundations
- Anthropic: Introduction to Model Context Protocol
- Anthropic: Claude in Amazon Bedrock
- Anthropic: Claude with Google Cloud Vertex AI
- Anthropic: Claude Code 101

AWARDS & HONORS

- 1st Place, North American Bagpiping Competition, Youth Division (August 2025): competed against regional champions across the US and Canada.
- 8th Place, World Bagpiping Championship, Youth Division (August 2024): one of fewer than 30 youth competitors to qualify internationally.
- Recipient of seven competitive bagpipe scholarships (2023-2026): St. Andrew's Society of Schenectady, Invermark School of Piping and Drumming, Balmoral School of Pipes and Drums, Glasgowlands Foundation, and two summer program scholarships to British Columbia.
- Recommended for Monmouth College's highest bagpipe scholarship (\$5,000 annual award): among fewer than five recipients nationally.
- Iona University Spirit and Performing Arts Award recipient.
- Active competitive member, Capital Youth District Pipe Band (Albany, NY): regional and international performance record since 2019.

SKILLS

Security: Penetration Testing, Vulnerability Assessment, OSINT, SIEM Operations, Blue Team Analysis, MITRE ATT&CK, NIST SP 800-53, Threat Modeling, Dark Web Monitoring

Tools: Nmap, Burp Suite, Wireshark, HackTheBox, Splunk, Kali Linux toolset, Git, VS Code

Programming: Python 3.11, Bash, PowerShell, JavaScript, REST API development, Automation scripting, CLI tooling

Cloud and Infrastructure: AWS, Google Cloud Platform (GCP), Docker, GitLab CI/CD (SAST, secret detection), Cloudflare Pages, Linux (Ubuntu, Kali)

Web and Data: FastAPI, Uvicorn, SQLAlchemy, Stripe, Jinja2, Chart.js, BeautifulSoup, WCAG 2.1 accessibility compliance

AI and APIs: Anthropic Claude API, Amazon Bedrock, Google Vertex AI, Model Context Protocol (MCP), Generative AI integration