Samuel T. Oakes

Fairfield, CT • oakess2@sacredheart.edu • (603) 333-4882 • www.linkedin.com/in/samoakes123

EDUCATION

Sacred Heart University, Fairfield, CT

Bachelor of Science, Cybersecurity (Minor: Computer Science), Cumulative GPA: 3.50/4.0, May 2026

Selected Coursework: Introduction to Cryptography (CY-312, Fall 2024), Network Security (CY-367, Fall 2024), Usable Security & Privacy (CY-325, Spring 2025), Forensic Computing (CY-324, Spring 2025), Software & System Security (CY-410, Fall 2025)

Senior Capstone: Built an agentic AI system for simulating "Red Team vs Blue Team" attack-defense scenarios using Python, applying reinforcement learning to train agents for automated vulnerability detection in enterprise infrastructure.

Extracurricular Activities: NCAA Division 1 Wrestler, SHU Cybersecurity Club President, Welch Scholar & Tech Team Member

TECHNICAL SKILLS & CERTIFICATIONS

AI & Automation: RAG Pipelines, LangChain, Local LLMs (Ollama), LLMs, n8n Automation, Vector Databases, Autonomous Agents
Cybersecurity & GRC: SentinelOne, Burp Suite, NIST CSF, ISO 27001, Vanta, Secure Frame, Kali Linux, Automated Pentesting
Networking & Infrastructure: Cisco IOS, Cisco DNAC, VLANs, Switch Stacking, Wireless Infrastructure, TCP/IP, Cisco Switches (Cat 3850), Structured Cabling
Programming & Tools: Python (Advanced), Bash (Intermediate), SQL (Intermediate), Docker, Git, Vercel, Supabase, JavaScript
Operating Systems: Linux (Kali, Red Hat), Windows, macOS
Certifications: Certified in Cybersecurity (CC) ISC2

PROFESSIONAL EXPERIENCE

Cloud Services Undergraduate Co-op Internship

LDI Connect, Shelton, CT, Internship May 2025 – Aug 2025, Aug 2025 - Present

- Designed and developed internal tools using Azure and AWS to automate workflows, provide reporting via dashboards for members of the executive team, and reduce manual data entry.
- Implemented Granular Delegated Admin Privileges (GDAP) and custom JSON policies to aid in the system-wide transition to Microsoft 365 Lighthouse.
- Provided support the organization's managed security stack (SentinelOne, Huntress) as well as device management through Microsoft Intune.

Network Technician

Sacred Heart University, Fairfield, CT, Part-Time Jul 2025 – Present

- Configured and maintained campus network infrastructure, including VLANs, switch stacks, wireless access points, data hacks, and UPS systems to support reliable connectivity across academic buildings.
- Resolved network incidents by managing ticket queues, answering network related support calls, and performing on-site maintenance in data closets to uphold operational standards.

Audio Visual Technician

Sacred Heart University, Fairfield, CT, Part-Time May 2023 – May 2025

- Supported classroom and campus event technology by deploying and operating AV systems, conducting routine classroom checks, and ensuring consistent system functionality.
- Maintained AV hardware, printers, and equipment inventory while securing network-connected AV systems against unauthorized access and responding to time-sensitive technical issues.

PROJECT & RESEARCH EXPERIENCE

Holistic Risk Management for Next-Gen Technologies Using AI and Governance Standards *(Poster, accepted)* **Aug 2025**

Presented at The International Conference on Software Engineering of Emerging Technologies, Aug 11-12, 2025, in Long Beach, CA
This work introduced Risk AI, an AI-driven system aligned with risk management standards which combined weighted quantitative scoring, RAG-enabled large language models, and dockerized microservices to proactively assess and mitigate cybersecurity/governance risks posed by emerging technologies.

Theory of Effective National Cybersecurity Policies *(Project)* **Jan 2025**

Participated in the 2025 Interdisciplinary Contest in Modeling (ICM), Jan 23-27, 2025, online.
Analyzed the Global Cybersecurity Index data to develop a 5-pillar (Legal, Technical, Organizational, Capacity, and Cooperation) framework.

Ecosystem Prediction Model for Sea Lampreys **Feb 2024**

Participated in the 2024 Mathematical Contest in Modeling (MCM), Feb 1-5, 2024, online.