

Samuel Oakes

Work Experience

IT Junior Technician
Fairfield, CT, U.S.

May 2023 – Present

- Maintained and operated complex AV systems, demonstrating expertise in troubleshooting, configuring, and securing networked hardware, software, and communication devices.
- Monitored live systems for performance issues, identifying and resolving hardware/software malfunctions under time-sensitive conditions, reflecting strong problem-solving skills and adaptability
- Managed AV equipment integration on enterprise networks while ensuring systems were safeguarded against unauthorized access and breaches.

Projects

Integrating Quantum Solutions into Insurance Business Operations

- Researched quantum applications to address potential vulnerabilities and enhance cryptographic security across insurance processes.
- Developed scalable solutions to prepare Travelers Insurance for post-quantum cryptographic (PQC) standards and mitigate risks associated with quantum advancements.
- Collaborated with leadership of Fortune 500 company to align quantum solutions with business strategy, focusing on risk assessment, claims processing, and operational efficiency.
- Provided actionable insights on integrating quantum technologies to maintain competitive edge and future-proof critical infrastructure.

Penetration testing of business network/vulnerable devices

- Used Wireshark for detailed packet-level analysis in cybersecurity investigations, aiding in the detection and remediation of advanced threats and vulnerabilities.
- Developed detailed technical report and write-up documenting findings, analysis, and solution for management.
- Conducted risk analysis and mitigation of identified vulnerabilities, implementing security measures and action plans to reduce exposure and safeguard network infrastructure.

Capstone Project – Product Development & Investor Pitch

- Collaborated with a team to conceptualize and develop a product idea, focusing on its benefits, market viability, and cost structure.
- Selected as one of 5 finalist teams to present to a panel of "shark" investors, demonstrating strong teamwork, creativity, and business acumen.
- Delivered a 5-minute pitch outlining the product's value proposition, benefits, and cost analysis, followed by a 5-minute Q&A session with investors.

Skills

Technical Skill:

- Encryption (Advanced)
- Risk Analysis (Experienced)
- Intrusion Detection(Moderate)
- Programming(Beginner)

Industry Knowledge:

- Infrastructure & Virtualization • Threat & Vulnerability Management • Reporting/Documentation

Tools and Software:

- WireShark
- Kali Linux
- Splunk
- MetaSploit
- Docker

Education

Sacred Heart University, Bachelor of Science 3.6 GPA

Cyber Security with a minor in Computer Science
Fairfield, CT— 05/2026

Awards: Welch Scholar Recipient, Dean's List, D1 Men's Wrestler

Other

- CC Certified ISC2
- Founder/President of Cybersecurity Club
- Cisco Ethical Hacker Certified
- Cisco Network Defense Certified
- Cisco Network Security Certified
- IBM Cybersecurity Fundamentals Certified
- CCSC-E CTF 3rd place finisher
- Global HTB CTF participant

Contact

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