

RHYS TREMBATH

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Experience

Sandia National Laboratories (SNL)

May 2024 – November 2024

Intern

Albuquerque, New Mexico

- Developed ransomware as part of TracerFire 13, enhancing skills in malware analysis, threat simulation, and system exploitation.
- Reverse engineered malware samples to analyze underlying mechanisms and improve attack strategies.
- Conducted research on employee remote monitoring tools, culminating in a published poster and co-authored paper.
- Designed and executed a TracerFire exercise centered on Remote Access Trojans targeting modern Windows systems, simulating realistic threats.

Digital Arts and Technology Academy

Aug 2021 – May 2023

IT Manager

Albuquerque, New Mexico

- Reduce time on work orders for stakeholders, ensuring a quicker response time.
- Maintained and troubleshooted computers and network equipment, ensuring smooth and efficient operations.
- Managed an inventory log of all IT assets, including computers, monitors, keyboards, hard drives, and IP addresses, using Excel.

Education

New Mexico Institute of Mining and Technology

Aug. 2025 – Current

Accelerated Master of Science in Transdisciplinary Cybersecurity

Socorro, New Mexico

New Mexico Institute of Mining and Technology

Aug. 2023 – Current

Bachelor of Science in Computer Science

Socorro, New Mexico

Digital Arts and Technology Academy

Aug. 2019 – May 2023

Diploma

Albuquerque, New Mexico

Publications

Evaluating Remote Worker Productivity Tracking: Methods, Morality, and Industry Analysis | SNL

2024

- Co-author, responsible for conducting in-depth research and analysis on the legal and ethical implications of remote tracking at both federal and state levels.

Technical Skills

Languages: C, C++, Python, HTML, x86 Assembly, x86-64 Assembly, Java, Ruby, and LaTeX

Tools: VS Code, Proxmox, Wireshark, Nmap, Bash, Powershell, Ghidra, and IDA

Operating Systems: Windows 10, 11, and Server 2016; Ubuntu, Fedora.

Other Projects

- *Malware Development*

Designing and developing wiperware that utilizes the Windows API, using C and x86-64 Assembly. The development of command and control (C2) servers that utilizes Python and Java.

- *Studying Military History*

Passion for exploring military history, including battles, political dynamics, ideologies, and philosophy.