

RICHARD TILLMAN

PROFESSIONAL SUMMARY

Dynamic cybersecurity professional with robust problem-solving and technical support skills focused on security hardware and malware mitigation. Detail-oriented and motivated, passionate about enhancing organizational security and operational efficiency. Proficient in Python programming, network design, and machine learning with a strong commitment to integrity, effective communication, and innovative solutions in cybersecurity and information security domains.

WORK EXPERIENCE

Assistant Director and Cybersecurity Instructor

Greater Valley Community Services, Braddock, PA

2019 - Current

- Directed the SURGE 2023 summer program, spreading cybersecurity awareness and teaching students cybersecurity fundamentals such as email and password monitoring using the "haveibeenpwned" service.
- Guided students in building Google's AIY Kits using Raspberry Pi technology as part of the SURGE 2023 cybersecurity program. Demonstrated Raspberry Pi capabilities including SSH connectivity and Linux OS utilization, introducing cost-effective technologies for a home lab.
- Conducted vulnerability assessments for over 20+ employees, addressing malware removal, antivirus support, and password management.
- Deployed and troubleshooted desktops across Windows, Kali Linux, and Mac environments in our technology space, enabling students to utilize them during the summer program.
- Implemented building authentication systems and managed access control with time profiles and unique RFID IDs, providing more robust building security, security event management, and efficiency of business operations.

Mercyhurst University, Erie, PA

CIS-405 ST: APPS OF COMPUTER VISION

2023

- Collaborated on software testing to develop an algorithm detecting American Sign Language (ASL) hand motions, transcribing them to on-screen text using Google Mediapipe, OpenCV, Transformers, and Long Short-Term Memory (LSTM) machine learning.
- Utilized Python and Google Colab for flexibility and ease in transcribing ASL motion signs with high accuracy, documenting findings and limitations comprehensively.

CIS-499 SENIOR PROJECT

2023

- Developed a network lab using AWS services such as Amazon VPC, Amazon WorkSpaces, Amazon EC2, and Amazon RDS, providing hands-on experience building cloud infrastructure.
- Achieved lab objectives to provide remote work flexibility, secure cloud networking, and private communication through VPC, including MySQL database support via Amazon RDS.
- Ensured successful SSH connectivity for administrators to access and modify EC2 instances remotely.
- Created a Cisco Packet Tracer model of the AWS network and documented AWS services' capabilities, limitations, and obstacles.

PERSONAL

HOME LAB

2023-2024

- Deployed a client-server software solution, NextCloud, which includes a team collaboration interface, cloud storage, and file hosting. Eliminating expenses using Dropbox, Office 365, or Google Drive for similar functionalities.

- Currently working on creating inter-VLANs to mitigate home network cyber threats using OpenWRT and Virtualization software

AWARDS/RECOGNITIONS/VOLUNTEER WORK

- Designed and maintained a website and app for Holy Temple Church.
- Awarded PSAC “All-Conference First-Team” in Football.
- Recognized by PSAC as a Scholar-Athlete in Football every semester.
- Designated 2023 Team Captain by teammates.
- Volunteer for Toys for Tots drive and distribution annually.
- Selected for George Mason University’s elite Video Game & Technology development program.
- Attended Pennsylvania Free Enterprise Week (PFEW), learning business and leadership skills.

EDUCATION

Master of Organizational Leadership

Mercyhurst University, *May 2024*

GPA: 3.722

Bachelor of Science in Cyber Security

Mercyhurst University, *May 2023*

GPA: 3.548

SKILLS

- Microsoft Office 365
- Technical Documentation (Quantitative / Qualitative Risk Assessment)
- Ethical Hacking
- Security Protocols
- Vulnerability Assessment
- Policy Writing
- Python, Jupyter Notebook, Google Colab
- Kali Linux
- Amazon Web Services (AWS)
- Nmap, Wireshark, Nessus
- Cisco Packet Tracer
- PuTTY (SSH)
- Autopsy, Metasploit, FTK Imager
- Authentication Systems, Access Control

CERTIFICATIONS

- OSINT Training, Mercyhurst University CIRAT - 2023

References available upon request