

ISLAM SALAH

Networking & Cybersecurity Engineer

Wayne, NJ 07470 • salah.islam704@gmail.com • 973-979-7884

PROJECTS

PiNexus

Current

Raspberry Pi 4 / Linux (DietPi) – Self-Hosted Homelab

- A Raspberry Pi-based local server providing a secure domain for my network, with services like ad blocking, VPN, and AI processing. This setup allowed me to explore networking, Linux system administration, and security.

Key Mechanics:

- Pi-Hole for Ad Blocking – Set up Pi-Hole to block ads and trackers across the network.
- WireGuard VPN – Configured WireGuard for secure, fast, and private remote access to my network.
- DNS & Reverse Proxy – Secure domain setup for self-hosted services.
- AI Integration – Running Ollama locally for AI-powered tasks on the Raspberry Pi.

PentestLab

Current

Ethical Hacking / Virtual Lab / Vulnerability Testing

- Designed a penetration testing lab using virtual machines to simulate real-world network attacks and security assessments. This lab helped me enhance my ethical hacking, networking, and security analysis skills.

Key Mechanics:

- Virtual Network Setup – Created an isolated network using VirtualBox & VMware for penetration testing.
- Kali Linux Toolkit – Used Nmap, Metasploit, Burp Suite, and Wireshark for vulnerability scanning and exploitation.
- Active Directory Security – Set up a Windows Server Active Directory environment and tested privilege escalation techniques.
- CTF Challenges – Hosted local Capture The Flag (CTF) challenges to practice real-world hacking scenarios.
- Mitigation & Defense – Analyzed logs and configured firewalls, IDS/IPS, and security patches to prevent attacks.

JOB EXPERIENCE

Skalli Events | Project Coordinator

Nov 2021 — Present

- Assist Engineers with audio and video equipment setup, monitoring and inventory
- Verify, test and troubleshoot audio and video connections. Escalate advanced issues to engineers
- Monitoring signals and levels during live events for audio and video quality assurance
- Assist in event planning logistics before, during and after live events

Legacy Castle | Banquet Server

June 2023 — September 2023

- Provided excellent service to wedding guests, ensuring everything ran smoothly, from intimate gatherings to large-scale events totaling 1,000 guests
- Tidied the ballrooms and prepared for the following days of work after every shift

TECHNICAL SKILLS

Programming Languages: Python, Bash, PowerShell, C, JavaScript, HTML/CSS

Cybersecurity Tools: Kali Linux, Wireshark, Metasploit, Burp Suite, Nmap, Nessus, John the Ripper

Operating Systems: Linux (Ubuntu, Kali, Fedora), Windows, MacOS

Cloud Security: AWS Security, Azure Security, GCP Security

Networking & Protocols: TCP/IP, DNS, HTTP/HTTPS, VPNs, VLANs, Firewalls, IDS/IPS

Vulnerability Assessment: OWASP Top 10, CVE Analysis, Security Auditing

Cryptography: Encryption Algorithms, SSL/TLS, RSA, AES, Hashing (MD5, SHA)

Automation & Scripting: Python, Bash, PowerShell

EDUCATION

Montclair State University

Bachelors of Science in Computer Science

Montclair, NJ

2022 - 2026