

TALHA AHMED

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EDUCATION

Virginia Polytechnic Institute and State University, Blacksburg

Blacksburg, VA (2022-2026)

Majors: Cyber Management Analytics

Minor: Data and Decision

- **2024 Honors and Awards:** Ranked in the 78th national percentile in the National Cyber League (NCL) competition.

- **Coursework:** Cyber Security Fundamentals, Networking Fundamentals, Intro to Python, Fundamentals of Management, Principles of Accounting, Operations and Supply Chain Management

WORK EXPERIENCE

IT Internal Support Intern | [Empire International Security](#)

Anaheim, CA (2023)

- Personally managed IT services and took steps to resolve technical issues and IT-related tickets within the company.
- Installed and maintained software on company hardware for complete service up-time and kept all products up-to-date with the latest security updates.
- Participated in discussions and offered suggestions for improving and upscaling company hardware and securely adding devices to the network ecosystem.

Lead Windows Instructor Intern | [Troy Cyber](#)

Fullerton, CA (2021)

- Led, organized and taught the largest high school cybersecurity program **400+** in the nation, as well as the largest cybersecurity summer camp in the nation.
- Prepared instructional slideshows, virtual testing sandboxes, and hands-on labs, and worked with online virtual lab hosting Practice Labs to allow hands-on learning while being at home or in class.
- Collaborated with other interns to create custom challenges for student engagement.
- Led multiple Windows security training sessions of 20-40 students in person and virtually to students of varying levels of knowledge.

PERSONAL PROJECTS

[Malware Analysis](#)

(August 2024 - Present)

- Reverse engineering malicious programs using Ghidra on Kali Linux to understand various exploit mechanisms.
- Ran samples of malware through a hypervisor with isolated VLAN environment.
- Analyzed the patterns in the binaries, completed static and active analysis on multiple programs.
- Jigsaw and Mirai


[Personal Portfolio](#)

(March 2023 - Present)

- Hosted on Netlify, with plans to transition to self-hosting in the near future.
- Developed using HTML, CSS, and JavaScript.
- Incorporates version control systems(Git) and integration into CI/CD pipelines for seamless updates.


Home Server

(December 2024)

- Designing and configuring a home server running Ubuntu Linux to host personal websites, a [Twitter bot\(WIP\)](#) , and other future projects.
- Evaluating Headscale and OpenVPN to establish a secure and efficient VPN.
- Plans to integrate Nginx for service management, optimizing resource utilization, and ensuring reliable up-time.

MarioTime Virtual Machine

(December 2022)

- Created a customized Windows 10 virtual machine configured as an educational resource for students with developing interest in cyber security.
- Designed to help beginners learn fundamental cyber security concepts given a simulated [scenario](#) .
- Practical exercises include task such as setting up firewalls and performing vulnerability assessments
- Includes practical exercises and a semi-realistic scenario to encourage a hands-on learning approach.

SKILLS AND OTHER

Languages - English, Urdu, Hindi

Technologies - Dev Tools: WireShark, VM/Hypervisors, Ghidra

Programming Languages: Python(Pandas, Matplotlib, Seaborn) JavaScript/TypeScript, HTML/CSS, R

Software: Microsoft Office Suite, Adobe Suite, Windows 10/11, Linux/Unix