Daniel Tomov

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### Obsessed IT Enthusiast with an impressive home lab. Dedicated to learning new things and using known skills to find solutions to everyday problems. Plagued with the overwhelming urge to tinker, figure things out, and build enterprise-level network infrastructures.

# Networking Experience

## Configured the home network April – Present 2022

* Used DHCP and Static Configurations to distribute IP addresses to devices on the network.
* Created port forwarding rules to allow outside traffic access private resources.
* Configured a SonicWall Firewall to allow the private network to access the internet and allow outside sources to access inside servers.

## Home lab April – Present 2022

* Created an instance of Home Assistant to control smart devices from different vendors and integrate it into a single dashboard. Used Let’s Encrypt to generate an SSL certificate to ensure secure communication.
* Created a DNS sinkhole with Pi-hole to monitor requests to the internet. Also used Pi-hole to create A records to access private servers with a FQDN.
* Used Apache Guacamole to create a web application that allows remote access of systems inside a network from outside the network.
* Used Nginx to create a reverse proxy to enable access from the public network to the private network to multiple applications while using one port. Applications are secured with a Let’s Encrypt Certificate.
* Used Proxmox to create containers to consolidate both Nginx, Apache Guacamole, Heimdall, and Ubuntu on one machine. Then used Let’s Encrypt and Certbot to generate SSL certificates for Proxmox and Nginx.
* Created a dashboard using Heimdall to access services from one place.

# Coding Experience

## Python December 2019 - Present

* Created a web app that performs similar functions to an Elgato Stream Deck. The app integrates with OBS through obs-websocket to control scenes and sources.
* Created a web app that recommends attractions according to user’s search terms. This was made for the Coding and Programming Topic in the 2022 FBLA Competition.
* Created a Discord Bot that replies to messages. The bot uses use artificial intelligence to converse with users.

## Java December 2021 - Present

* Made Minecraft Server plugins based on requests from the Bukkit Forums.

# Cyber Security Experience

## Hack the box April - May 2022

* Completed the Appointment Machine which required directory fuzzing
* Completed the Sequel Machine which required searching a database with SQL
* Completed the Crocodile Machine which required anonymously logging into an FTP server

## Vulnhub November - December 2021

* Completed the Mercury box which required SQL injection
* Completed the Double Trouble boxes which required utilizing a vulnerability in Apache to change .htaccess to upload a PHP reverse shell.

## CTF Challenges March – May 2022

* Received 5th, 1st, and 2nd places out of all of Virginia schools in Radford CTF challenges organized by Radford University.
* Received more than 40,000 points in CyberStart giving the opportunity to compete for NCSF scholarships.
* Received 3rd place in STEM Trifecta Challenge.

# Certifications

CompTIA Security+

Network+ (Estimated May 2023)

Microsoft MTA Database Administration Fundamentals

Microsoft Office 2019 Associate

Pearson IC3 Digital Literacy Certification

Juniper JNCIA-Junos (Estimated October 2022)

JNCIA-SEC (Estimated October 2022)

GIAC GFACT (Estimated September 2022)

# Education

## Technology and STEM Academy at Landstown High School June 2019-Present

* 12th grade
* Advanced Diploma (Estimated June 2023)