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 2022 – Present**

- 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 2022 – Present**

- 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 DNS 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 the public 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 the 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 artificial intelligence to converse with users.

Java   **December 2021 - Present**

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

HTML, CSS, and JavaScript   **November 2018 - Present**

- Created a website that represents an imaginary business called PandaBG. The business sells Bulgarian products such as food, cloths, spices, and drinks. The website was made to apply to The STEM and Technology Academy at Landstown High School.
- Created a personal website to introduce me to potential employers and others interested in learning more about me. The website includes a description about me, my certifications, and accomplishments. The website is hosted with GitHub Pages with a custom hostname and protected with an SSL Certificate.

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.

Capture the Flag 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.

Awards and Competitions

Future Business Leaders of America   **2022**
- Third place in Cybersecurity Competition.
- Second place in Coding and Programming Competition.

Technology Student Association   **2022**
- Third place in Cybersecurity Capture the Flag Competition.

Marine Advanced Technology Education ROV Competition   **2022**
- First place in the Mid-Atlantic Region.
- Twenty-Second place in the World Championships.

Principle's List   **2022**
- Twelve times at Landstown High School

Certifications

CompTIA	Security+ SY-601	May 2022
	Network+ N10-008	(Estimated May 2023)
Microsoft	MTA Database Administration Fundamentals	February 2022
	Microsoft Office 2019 Associate	March 2021
Pearson	IfaC3 Digital Literacy Certification	November 2019
Juniper	JNCIA-Junos	September 2022
	JNCIA-SEC	(Estimated October 2022)
GIAC	GIAC Foundational Cybersecurity Technologies	September 2022

Education

Technology and STEM Academy at Landstown High School   **June 2019-Present**
- 12th grade
- Advanced Diploma   (Estimated June 2023)
- Grade Point Average (unweighted and weighted)   4.0   4.09
- SAT Score   1330 (610 Reading 720 Math)
- Two years of Cybersecurity Class

AP Classes

Class Name	GPA (unweighted)	AP Test Score
AP Calculus AB	4.0	4

Tidewater Community College   **February 2022 – May 2022**
- ITN101 Introduction to networking   3.7 GPA