Cybersecurity Resources

General Cyber Sites

⭐ *Indicates free hacking opportunities and/or hands on labs*

- ⭐ **TryHackMe:** Hands on cybersecurity activities. You will receive paid access about halfway through the program so focus on the free activities and rooms.
- ⭐ **HackTheBox:** Gamified, hands-on upskilling from cybersecurity fundamentals to advanced scenarios.
- ⭐ **OffSec**: Offers *three hours of daily access* to standalone private labs, where you can practice and perfect your pentesting skills on community-generated Linux machines.
- ⭐ **PenTesterLab**: More free exercises that go beyond simply running tools; “it’s about knowing what you’re doing and why”
- ⭐ **Forage Service Desk Job Simulation**: Resolve technical issues and escalate network outages alongside Datacom's service desk team
- ⭐ **IT Ticket Management**: Create ticket submission forms, and streamline helpdesk processes to enhance employee support.
- **CodeAcademy:** Study a range of topics from SQL, Python, Swift, Bash/Shell, R , Javascript Ruby, Java and more
- **Cybrary**: A comprehensive resource offering free and premium courses ranging from beginner to advanced levels.
- **CISA.gov (Critical Infrastructure and Security Agency) Presidents Cup: Hone your Cyber Skills:** You don’t have to be a federal employee to check out challenges from previous competitions!
- **DataCamp** - Learn R, Python & Data Science (30 day trial or monthly membership)
- **Exercism.org**: learn to code
- **Free Code Camp:** Learn to code with study groups around the world through thousands of videos, articles, and interactive coding lessons
- **Roadmap** - Detailed definitions of relevant Cybersecurity terms, tools and concepts. Great quick study tool.
- **Sololearn:** Free courses to learn Python, C, C#, SQL, HTML, CSS, Java, JavaScript

Follow Experts & Influencers on LinkedIn

- **Boyd Clewis:** Helping People Discover Transferable Skills and Convert Them Into Cybersecurity Careers
- **Brian Krebs:** Investigative reporter, krebsonsecurity.com
- **Mike Miller:** Passionate mentor, especially to those new to the field, making career transitions, or looking to advance their current position
- **Chuck Keith:** AKA NetworkChuck
- **Dr. Adrian M. Mayers:** CISO | Cybersecurity, Risk, & Compliance Professional | Board Member | Researcher | Advisor | Mentor | Keynote Speaker
- **Lance James:** CEO @ Unit 221B, Hacker, Coach & Mentor, Board & Security Industry Advisor, Chief Scientist/CEO/CTO/CISO, Legal Expert Witness, Tedx Speaker, Beginner's Mind Zen-based leadership
- **Confidence Staveley:** Multi-Award Winning Cybersecurity Leader | Author - API Security for White Hat Hackers | International Speaker | Gender Inclusion Actionist
- **Mic Merritt:** Forging Tomorrow's Cybersecurity Leaders | Cybersecurity Executive & Lead AI/ML Penetration Tester | WGU Cybersecurity Instructor | Doctoral Student & Scholar-Practitioner | The Cyber Hammer
- **Professor Messer:** Training the world | CompTIA expert
- **Shira Rubinoff:** Leading cybersecurity executive, author, advisor, keynote speaker, and cyber influencer
- **Tanara Burke-Lloyd:** Cybersecurity/Cloud Enthusiast, SOC Analyst | 3x's Azure Certified | Comptia Security+ | Top 2% on TryHackMe | Member: ISC2 | Member: Cyversity | Member: Women's Society of Cyberjutsu
- **Tia (Yatia) Hopkins:** The Cyber Equalizer™ | Board Director and Advisor | QTE | BCBR | Global Award-Winning Cyber Exec | Educator | Mentor | Keynote | 2x Best-Selling Author | Innovative Thought Leader | Systems Thinker | Diversity Champion
- **Dan Lohrmann**: Great resource, especially if you're looking into how the government handles cybersecurity or disaster recovery

- **Candace Williams:** LinkedIn Top Voice 2024 | Cyber Leader + Intrapreneur | Governance, Risk, and Compliance | Responsible AI | Serial Collaborator | Gender Parity Advocate | Creator | Author | Public Speaker

Exploring Cyber Career Pathways

- **CyberSeek Career Pathways Page**
- ⭐**NICCS Cyber Career Pathways Tool**
- ⭐**TryCyber:** This is a "micro-challenge"/game site that puts learners in a 30-min simulation as a day on the job for a variety of different cyber pathways. They get to choose which pathway they want to try out.
- **JP Morgan and Chase: Cybersecurity Job Simulation:** Experience for yourself the daily tasks our cybersecurity team faces while keeping our worldwide financial firm protected from hackers and fraud. Learn how our team filters out spam emails and develop a system to tighten Identity and Access Management rules as you complete these tasks firsthand.
- **Top Cybersecurity roles and skills**: Techopeida article

Continuing Education and Practice

Cyber General:

- **Hackerone, Bug Bounty Programs:** Long list of various bug bounty programs, paid and unpaid.

CompTIA

- **CompTIA Security+** - The new version: your questions answered.The CompTIA Security + certificate is being updated from the SY0-601 version to the SY0-701 version. As of Aug 1st, the exam will cover a bunch of new topics.
- Professor Messer's SY0-601 CompTIA Security+ Course
- Professor Messer's SY0-701 CompTIA Security+ Course

GitHub

- CodeAcademy: Learn About GitHub

LinkedIn

- LinkedIn Help - Youtube video

Linux

- Bandit: Linux browser game where you can perform command-based exercises to level up
- Command Reference Guide: Created by Coach Shawn Stewart
- Linux for Ethical Hackers - Youtube channel
- Linux Operating System Crash Course for Beginners - Youtube video
- **Linux Upskill Challenge (Start here):** Daily lessons, support and discussion for those following the month-long "Linux Upskill Challenge" course material. Aimed at those who aspire to get Linux-related jobs in industry - junior Linux sysadmin, devops-related work and similar.

SQL

- w3schools - SQL
- codecademy - SQL
- tutorials point - SQL
- **Mimo -** memorize commands, covers front end and back end dev, JSS, HTML, SQL, Python

Virtual Machines

- Virtual Box: A general-purpose full virtualizer for x86 hardware, targeted at server, desktop and embedded use

Wireshark

- Cybrary - Wireshark Basics
- Unit 42 - Wireshark Tutorial
- Malware Traffic Analysis - A site for sharing packet capture (pcap) files and malware samples
- Wireshark for Incident Reporting and Threat Hunting - Youtube video, 3 hours

Volunteer Opportunities

- Cyber AB Volunteer Services - Becoming a CMMC volunteer can offer several potential benefits and opportunities. Here are a few reasons to volunteer in the CMMC ecosystem with us: Contribute to National Security, Professional Development, Networking and Collaboration, Skill Enhancement and Community Engagement

- Cyber Collective - Cyber Collective Advocates is our volunteer program designed to engage passionate individuals in our mission to promote online safety, privacy, and responsible digital practices. Volunteers will have the opportunity to contribute to various activities, from organizing impactful events to creating valuable resources on cybersecurity, privacy, and emerging digital technology trends.

- Cybersecurity Volunteer Opportunities on LinkedIn - Tips from Top Experts

- Cybersecurity Volunteer Opportunities List - The Cybersecurity Volunteer Opportunities List, CVOL for short, is a list of Cybersecurity Volunteer Opportunities from around the world and online. This can help you gain experience in cybersecurity.

- Cyber Volunteer Resources - Cyber volunteer programs play a critical role in upskilling the cyber workforce and supporting the cyber resilience of under-resourced high-risk communities.

- Women Cybersecurity Society - As one of the society volunteers, you become part of our global community family. We value your time and appreciate the support you provide through using your time and resources to advance the interests of women and minorities in a cybersecurity career.

- Project Cyber - We welcome volunteers from all backgrounds (no cybersecurity experience required!) who share our energy and passion to support program events, contribute to program development, and to assist with community outreach.

- The Cyber Challenge Department of Defense - Game simulation and allows you to connect with a recruiter.

- Volunteer Match Cyber Defense and Intelligence Center - The mission of the Cyber Defense and Intelligence Center (CDIC) is to proactively protect and defend our digital frontiers against cyber threats, continuously cultivate intelligence on emerging risks, and foster a resilient cyber ecosystem.