

A Career in Cybersecurity Without Coding? Yes, you can!

Cathy Olieslaeger



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Cathy Olieslaeger

MBA, CISSP, CISM, CCP Zero Coding Experience

Rewriting the People Story in Cybersecurity

Founder & Principal Consultant @ The Triangle Net LLC Podcast Host, Journey into Cybersecurity



Why the Bad Guys Still Win

Rapid Tech Changes

1

2

3

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Technology evolves at hypersonic speeds; AI being the latest shiny toy.

Quick Adoption by Hackers

Malicious actors immediately adopt new technologies for hacking.

Slow Corporate Response

Organizations lag in adopting defensive solutions due to budget cycles.

Cultural Disconnect

Corporate culture fails to prioritize cybersecurity as a business risk.





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"Hey, takin' on a challenge is a lot like ridin' a horse. If you're comfortable while you're doin' it, you're probably doin' it wrong." Ted Lasso

Challenge the People Story

Boys Club

Cybersecurity remains predominantly male-dominated.

2

3

"Talent Gap"

The cyber talent gap is actually a process gap.

CISO's Dilemma

CISOs are stuck between a rock and a hard place, lost in translation.





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To break into cybersecurity,

hack the system!



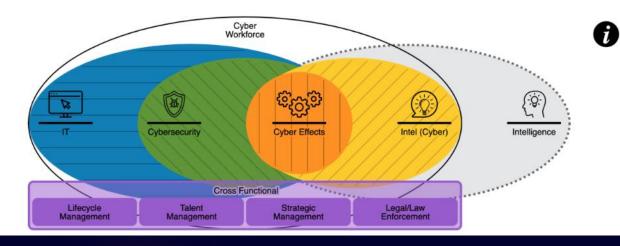


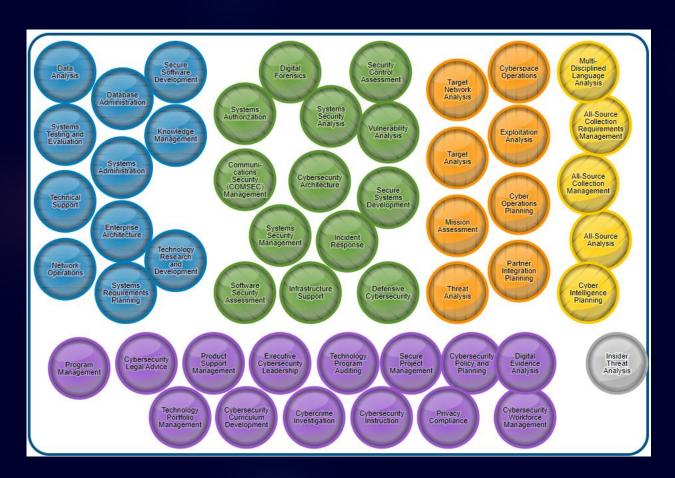
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Cybersecurity Career Pathways

About the Cyber Workforce Communities Venn Diagram

The Cyber Workforce encompasses the skills required to build, secure, operate, defend and protect technology, data, and resources; conduct related intelligence activities; enable future operations; and project power in or through cyberspace. It is comprised of the following skill communities: IT, Cybersecurity, Cyber Effects, Intel (Cyber), and Cross Functional. The skill communities are color coded to match the work role galaxy.



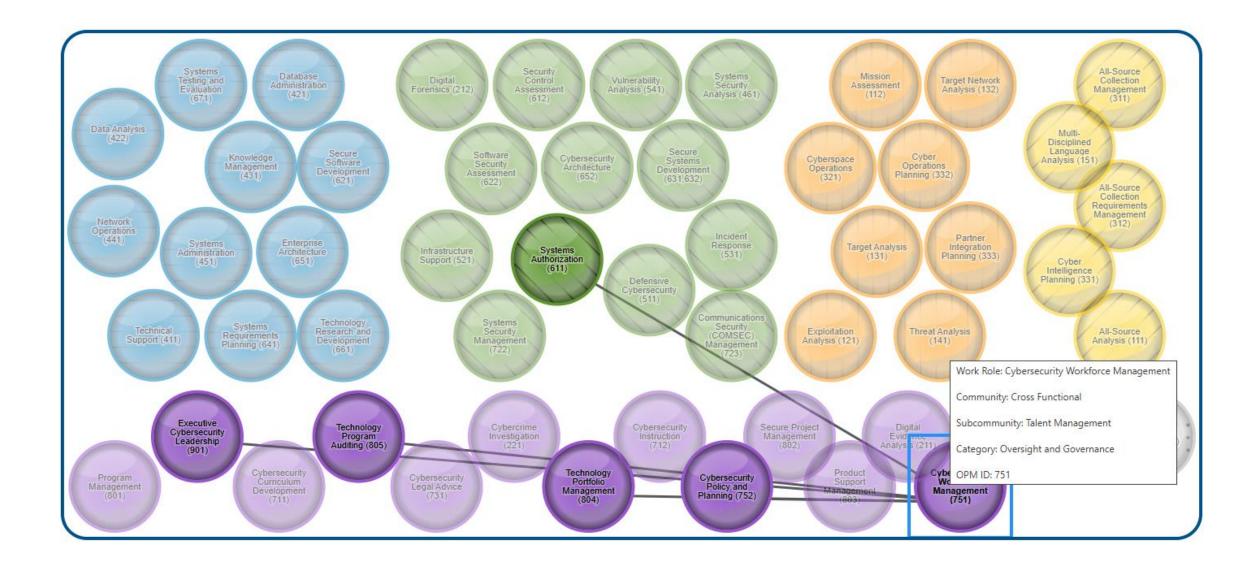


NICCS Career Pathways Tool

Explore diverse cybersecurity career options using the NICCS tool https://niccs.cisa.gov/workforce-development/cyber-career-pathways-tool



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Federal Cybersecurity Pathways

DOD Cyber Exchange

Explore diverse cybersecurity career options:

- Cybersecurity •
- Cyber IT \bullet
- Cyber Enablers •

https://public.cyber.mil/wid/pathways/

CAREER PATHWAY EXECUTIVE CYBER LEADERSHIP (901)1				
1	901-EXECUTIVE CYBER LEADERSHIP			
1.1	Work Role Overview			
1.2	Core Tasks5			
1.3	Core Knowledge, Skills, and Abilities7			
1.4	Core Competencies10			
1.5	Suggested Qualifications / Capability Indicators12			

Cyber Enablers	5
211 Law Enforcement Counterintelligence	e
<u>221 Cyber Crime Investigator</u>	
<u>711 Cyber Instructional Curriculum Deve</u>	elo
<u>712 Cyber Instructor</u>	
<u>731 Cyber Legal Advisor</u>	
• 732 Privacy Officer Privacy Compliance C)f
<u>751 Cyber Workforce Developer and Ma</u>	n
<u>752 Cyber Policy Strategy Planner</u>	
<u>801 Program Manager</u>	
<u>802 IT Project Manager</u>	
<u>803 Product Support Manager</u>	
804 IT Investment Portfolio Manager	
<u>805 IT Program Auditor</u>	
<u>901 Executive Cyber Leadership</u>	

Forensics Analyst

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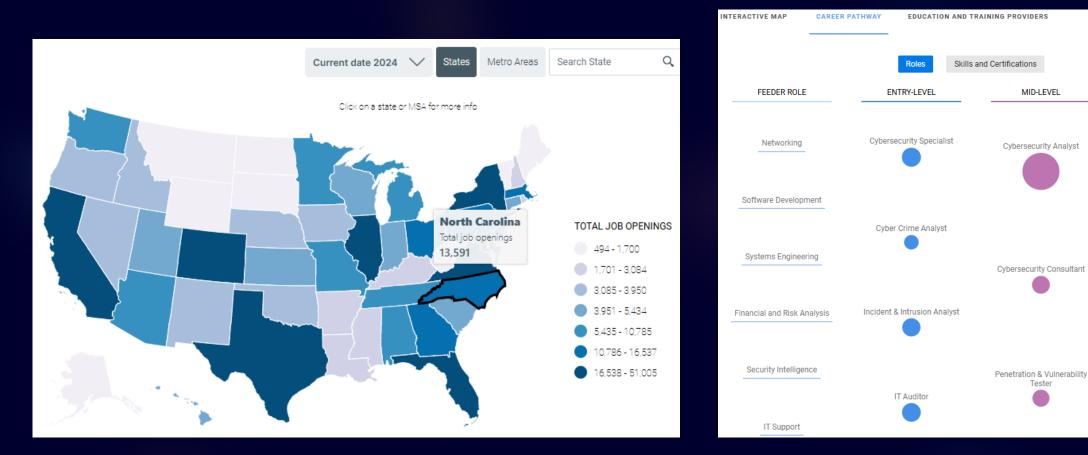
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Cybersecurity Opportunities Galore



CyberSeek Interactive Map

North Carolina: 13,591 open jobs on 10/28/2024 https://www.cyberseek.org/heatmap.html

CyberSeek Career Pathway

Cybersecurity Pathways https://www.cyberseek.org/pathway.html

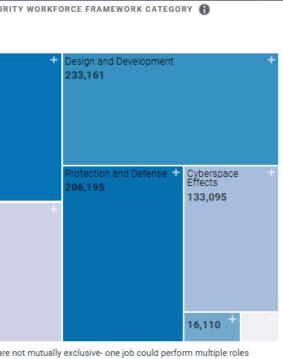






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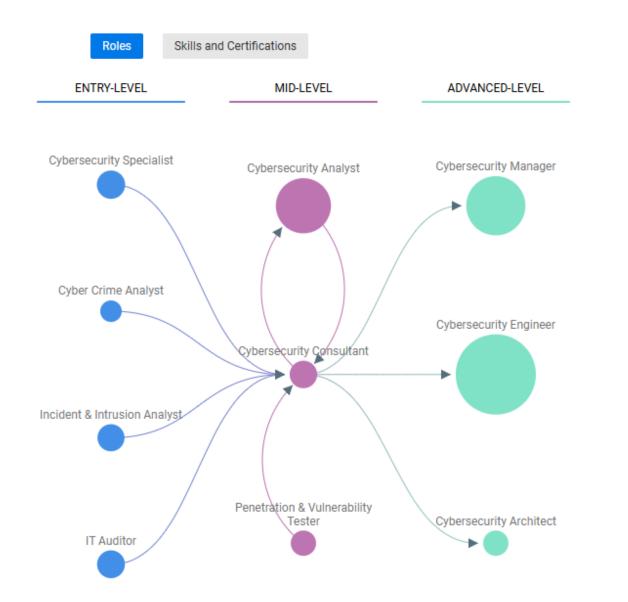
CERTIFICATION HOLDERS	S / OPENINGS REQUESTING CERTIFICATION 🚯	CERTIFICATION HOLDER	S / OPENINGS REQUESTING CERTIFICATION 🚯	
Certification holders	Openings requesting certification	Certification holders	Openings requesting certification	JOB OPENINGS BY NICE CYBERSECUR
				NICE
Certified Information Systems Security Professional (CISSP)	70,082	CompTIA Security+	265,992	Oversight and Governance 314,238
CompTIA Security+	63,260	Certified Information Systems Security Professional (CISSP)		
Certified Information Systems Auditor (CISA)		Global Information Assurance Certification (GIAC)		Implementation and Operation 293,618
Global Information Assurance Certification (GIAC)	36,878	Certified Information Systems Auditor (CISA)		
Certified Information Security Manager (CISM)	36,232	Certified Information Security Manager (CISM)	20,300	
Certified Information Privacy Professional (CIPP)	5,975	Certified Information Privacy Professional (CIPP)	13,652	Notes: The NICE Workforce Categories are within the framework. The data shown her



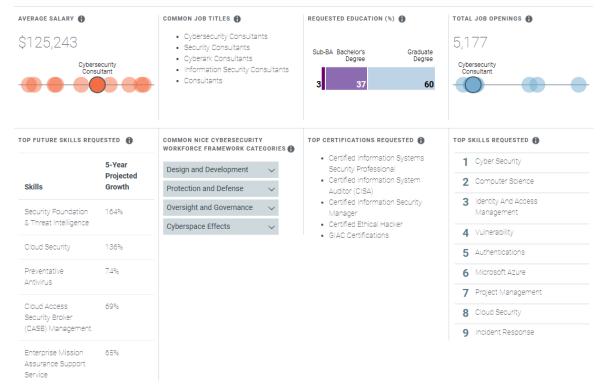
ere are not intended to be aggregated.



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Cybersecurity Consultant



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Experience is Gold Internships are the Best Hack to Break into Cybersecurity

Gain experience through internships to break into the cybersecurity field. https://www.thetrianglenet.com/mentorships-internships-jobs/

Look for summer internships NOW.

Once you made it in the professional world, create internships. Pay your good fortune forward.







Cloud Cybersecurity Intern

Tanium Durham, NC (On-site) \$55/hr

TRACE

Security Governance, Risk, and Compliance Intern (Remote) Trace3 United States (Remote)

\$18/hr - \$25/hr · 401(k) benefit



Governance Risk and **Compliance Intern**

Claroty United States (Remote) \$23/hr - \$25/hr



Communications Specialist (Intern United States 🕢 Cisco

Raleigh, NC (On-site) \$44K/yr - \$130K/yr



IAM Intern 🕢 Labcorp Durham, NC 401(k) benefit

INTERNSHIPS

Apprenticeships - US Dept. of Labor

Search open apprenticeship job opportunities from employers across the country and directly apply with the employer of the apprenticeship program. Can't find an open apprenticeship job to match your preferred location or occupation? Try connecting with an apprenticeship program to learn more about when they are accepting new apprentice applications by searching on the "Apprenticeship Programs" tab.

Find the right internship for you at internships.com.

Cybersecurity Internships in the US on Indeed

Cisco internships

Cisco interns and new-grads gain relevant experience to inspire innovation and grow their careers.

CompTIA Apprenticeships for Tech

Highly skilled tech talent is needed to accelerate growth in every industry. It's critical that the tech talent pool better reflects the growing diversity of today's workforce. CompTIA Apprenticeships for Tech allow businesses to diversify their tech teams, which benefits both employers and employees alike. Registered apprenticeships for tech also offer businesses the opportunity to upskill and reskill workers, while connecting people to promising careers in IT.

CyberUp - LevelUp Apprenticeships







Hitachi Energy

Hitachi Energy

Game Security Intern 🕑 Epic Games Cary, NC (On-site)

- **Network Operations Support** Summer 2025 Internship 🕑 Verizon
- Cary, NC (Hybrid) \$23/hr - \$31/hr · 401(k) benefit

Compliance Risk Management Intern 🕑 First Citizens Bank Raleigh, NC (On-site)

Intern – IT, Security Analyst, Cyber Fusion Center 🕝 **Gilead Sciences**

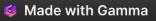
Raleigh, NC \$19/hr - \$55/hr

2025 Summer Computer Science Software/Cyber Security Intern 🕑 Raleigh, NC (On-site)

GRC: No Coding Required

Trying to explain our current cyber risk to the board





GRC: No Coding Required, Endless Opportunities

NIST CSF 2.0

Emphasizes governance and topdown cyber risk management.

CMMC

Requires compliance for organizations in the Defense Industrial Base.

DORA

2025.

The Common Denominator = Supply Chain Risk Management

Other areas to gain an edge: Ethics, AI risk, Privacy and Education

https://www.thetrianglenet.com/grc/

New EU regulation affecting US financial organizations by January



The NIST Cybersecurity Framework (CSF) 2.0

Governance

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Executive leaders must set a cybersecurity risk management strategy, manage cyber risk proactively. Cybersecurity risk is business risk.

Resilience in the Supply Chain

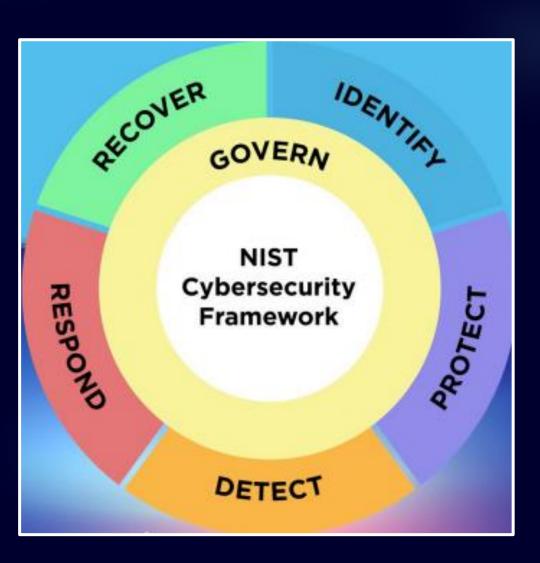
Third-party risk must be managed.

Incident Readiness

Incident reporting requirements across industry and regulations are more demanding.

Outcome Based

NIST provides resources and implementation guides based on the type of organization and the regulatory environment they operate in.

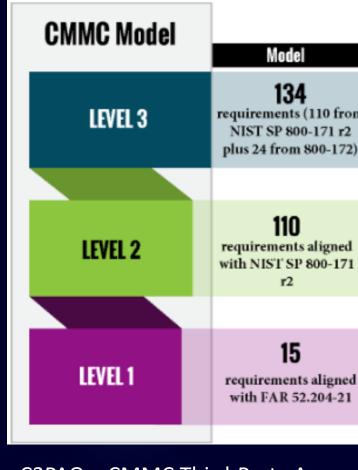




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Cybersecurity Maturity Model Certification (CMMC)





C3PAO = CMMC Third-Party Assessment Organization

del	Assessment
34 nts (110 from 800-171 r2 om 800-172)	 DIBCAC assessment every 3 years Annual Affirmation
D nts aligned SP 800-171 2	 C3PAO assessment every 3 years, or Self-assessment every 3 years for select programs. Annual Affirmation
E	

Annual self-assessment

Annual Affirmation

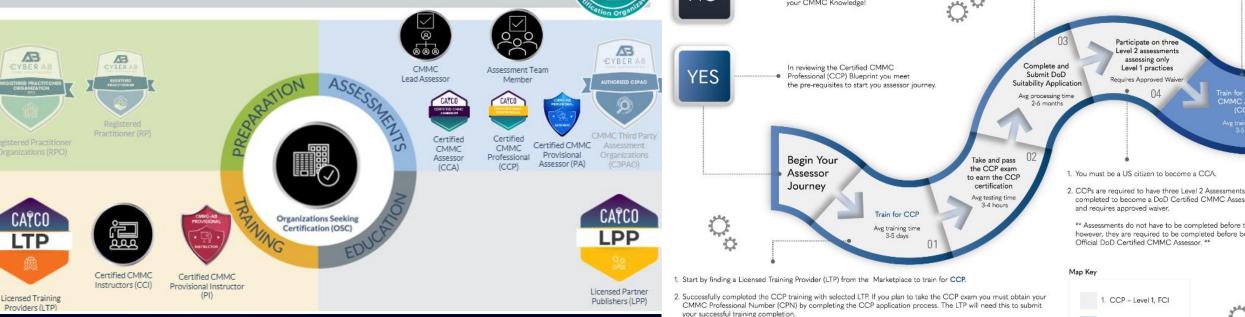
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The CMMC Ecosystem

INDIVIDUALS

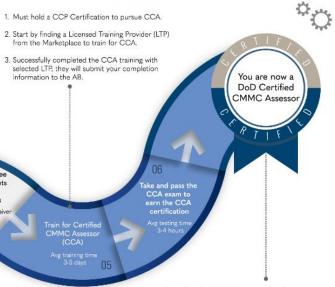
BECOMING A CMMC ASSESSOR Are you qualified to become an assessor? 1. Important: Must be a U.S. citizen to apply for suitability. 2. Once submitted to WHS the AB no longer has visibility or input to the application process or status. This is a lengthy CATCO process ranging from 2-6 months for WHS to complete the investigation and make a final suitability determination. Instead check out becoming a NO Registered Practitioner (RP) to build \circ° your CMMC Knowledge! Participate on thre ß Level 2 assessment assessing only CYBER. In reviewing the Certified CMMC Complete and Level 1 practices YES Submit DoD Professional (CCP) Blueprint you meet Requires Approved Waive Suitability Application the pre-requisites to start you assessor journey. 04 Avg processing tim 2-6 month

3. Pass DOD CUI Awareness Training no earlier than three months prior to the exam. Find the training here.



Registered Practitioners (RP) can consult. Certified CMMC Professionals (CCP) can consult/assess. Certified CMMC Assessors (CCA) can lead assessments. Certified CMMC Instructors (CCI) can assess/teach.

https://cyberab.org/CMMC-Ecosystem/Ecosystem-Roles https://cyberab.org/Catalog#!/c/s/Results/Format/list/Page/1/Size/9/Sort/NameAscending



completed to become a DoD Certified CMMC Assessor (CCA)

** Assessments do not have to be completed before training for CCA however, they are required to be completed before becoming an

DoD Certified CMMC Assessor Requirements:

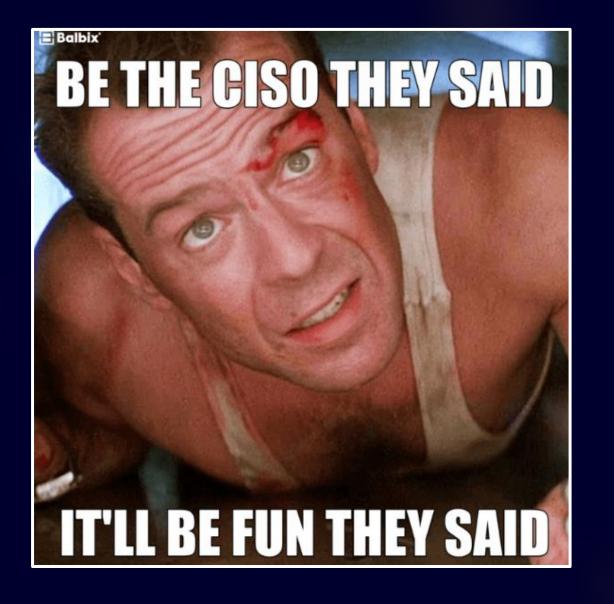
- 1. Are a U.S. citizen
- 2. Earned a CCP Certification
- 3. Achieved DoD Suitability
- 4. Completed the three Level 2 assessments, assessing Level 1 practices
- 5. Earned a CCA Certification
- 6. Signed agreements and paid all fees to the AB

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2. CCA - Level 2, CUI





CISO 2.0: The Evolving Role



Supply Chain Risk Management

3

Prioritize third-party risk management in cybersecurity practices. Across people, processes and systems implement data-centric security policies.



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Kelsey's Cybersecurity Journey



Early Interest

1

2

3

Started by breaking into her parent's tablet. Became a drone instructor.

Education

Pursued a Bachelor's in cybersecurity. Attended ISSA conferences.

Professional Growth

Joined the BestBuy Geek Squad. Secured a federal security internship. ... before her senior year in college!



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The Future of Cybersecurity Careers

Diverse Opportunities

Numerous paths available in cybersecurity, catering to various skills and interests.

Continuous Learning

Stay updated with evolving regulations and technologies in the field.

Industry Growth

Increasing demand for cybersecurity professionals across all sectors.

with Gamma

My next chapter...

Pocket Guide Q1 2025:

Cybersecurity for Everyone: A Human-Centered Approach to Protecting Yourself and Your Community.

Cybersecurity Advisory

- Contractor to Registered Practitioner Organizations (RPO) and CMMC Third-Party Risk Assessor Organizations (C3PAO) for CMMC consulting or assessment services
- On-demand cybersecurity and risk management advisory
- Introductory risk management presentation for leaders in the C-suite or Boards of Directors.

Staff Augmentation

Connecting people with opportunities in cybersecurity in collaboration with Garnet River.

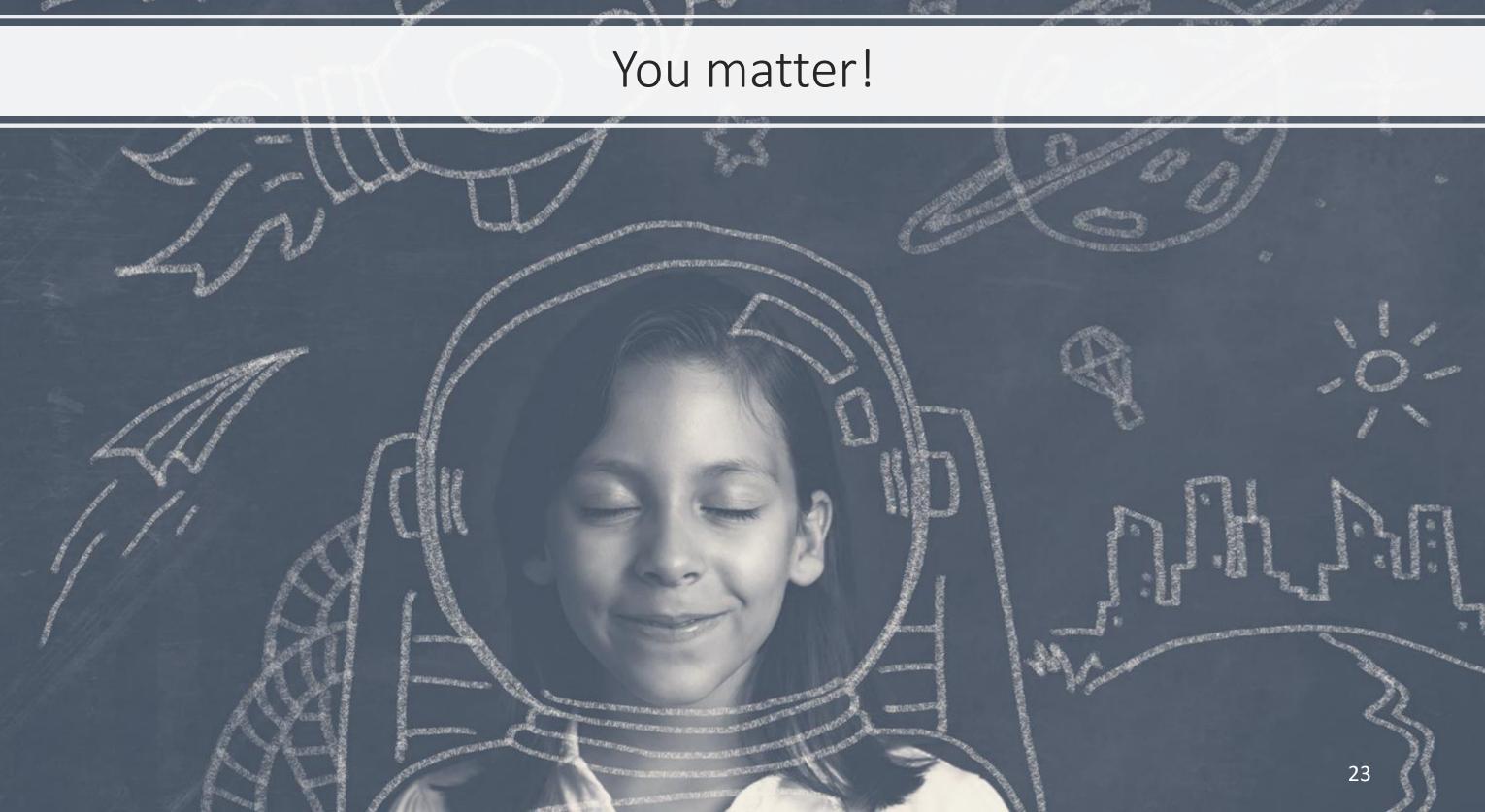
Journey into Cybersecurity Podcast Season 3 = TBD

NEVER SAY YOU CAN'T DO SOMETHING. SAY, I HAVEN'T DONE IT YET.

- Rick Rubin



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Resources

Simply Cyber, How to break into GRC (Gerald Auger)

https://academy.simplycyber.io/p/the-definitive-grc-analyst-program

GRC Academy: https://grcacademy.io/

NIST CSF: https://www.nist.gov/cyberframework

DOD CMMC: https://dodcio.defense.gov/CMMC/

Work Opportunities

https://www.thetrianglenet.com/mentorships-internships-jobs/

Career Paths

DOD: https://public.cyber.mil/wid/pathways/

NICCS: https://niccs.cisa.gov/workforce-development/cyber-career-pathways-tool

Cyberseek: <u>https://www.cyberseek.org/pathway.html</u>

TCM, How to be an ethical hacker in 2025

https://tcm-sec.com/how-to-be-an-ethical-hacker-in-2025/

Bias – With it, we lose

TED, Why are women still taken less seriously than men, Oct 2023

https://www.ted.com/talks/mary_ann_sieghart_why_are_women_still_taken_less_seriously_than_men_

The Sisterhood, The Secret History of Women at the CIA, Liza Mundy: https://www.lizamundy.com/the-sisterhood/

Cyversity: https://www.cyversity.org/



