My Cybersecurity Career Path and Guidance for Yours

MARIA BROWN

OWASP PHOENIX MEETUP

APRIL 2024

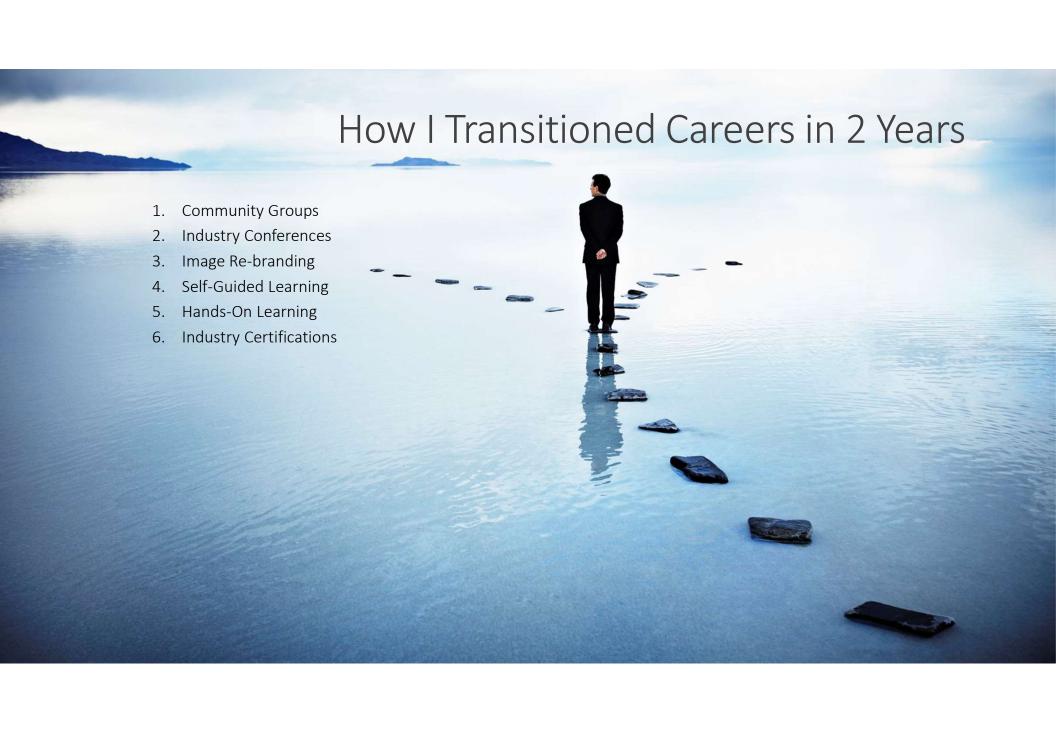
Topics



Career Path







Community Groups

My Community Groups

OWASP Meetup

Local Meetup Groups



OWASP Phoenix Chapter https://www.meetup.com/ owasp-phoenix-chapter



We Protect PHX https://www.meetup. com/we-protect-phx

Nowhere near a complete list!



EVSec Community
https://www.meetup.
com/evsecaz
Event April 4

Remote Meetup Groups

Largest Cybersecurity groups

- FutureGPT: AI/ML, Cyber Security, Blockchain, AR/VR & IoT 17,761 Innovators | Bangalore, India
 - Organized by Nayyan Mujadiya
- D.C. Cybersecurity Professionals 10,225 CyberWarriors | Arlington, USA
 - Organized by Tyrone E. Wilson
- 3 OWASP DevSlop Project 6,733 Members | Ottawa, Canada















https://www.meetup.com/topics/cybersecurity

Industry Conferences

My Conferences

- OWASP AppSec California
- OWASP App Sec USA
- Blackhat / Defcon
- Cactus Con

Local Conferences



Career Village

https://infosec-conferences.com/us-state/arizona

Nationwide and Regional Conferences













Nowhere near a complete list!

Image Re-Branding

My Re-Branding

- Company profile
- Security forum postings
- Business security review Sister's Office

Cybersecurity Help



Help friends and neighbors with security reviews

Blog Posts



Write blog posts as you learn new stuff

Public Speaking



Speak at community groups as you learn topics

Tell Everyone



Present yourself as a person pursuing cybersecurity

"Don't compare your beginning to someone else's middle."

Self-Guided Learning

My Learning Tools

- Pluralsight Skill Builder
- OWASP Podcasts

Learning Tools



https://www.pluralsight.com

CYBRARY

https://www.cybrary.it

Cybersec Videos



@DEFCONConference @CactusCon @OWASPGLOBAL

Security Tube

http://www.securitytube.net

Industry News



https://www.darkreading.com



https://thehackernews.com

Nowhere near a complete list!

Hands On Learning

Skill Practice Platforms





https://github.com/joe-shenouda/awesome-cyber-skills

My Hands On Learning

• CactusCon Root The Box CTF

Certifications

My Certifications (self-funded)

- 2015 CISSP Associate Certified Information Systems Security Professional
- 2016 CEH Certified Ethical Hacker
- 2017 CES Certified Encryption
 Specialist
- 2017 CCSK Certificate of Cloud Security Knowledge

Entry Level Skill Certifications





Entry Level Cloud Certifications





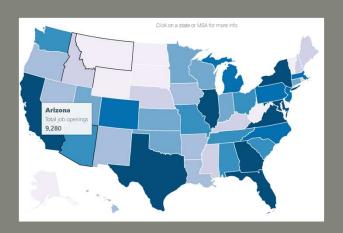
Mid-Career Certification





Nowhere near a complete list!

Cybersecurity Certification Heat Map





https://www.cyberseek.org/heatmap.html



General Public

Federal Employees

High School Students

NICCS®

General Public

The National Initiative for Cybersecurity Careers and Studies (NICCS) website is the premier online resource for cybersecurity **training**, **education**, and **career** information. NICCS connects government employees, students, educators, and industry with cybersecurity resources and training providers throughout the Nation.

https://niccs.cisa.gov

Federal Virtual Training Environment (FedVTE)

- Federal government employees and contractors
- State, Local, Tribal, and Territorial (SLTT) government employees
- U.S. military personnel and Veterans
- General public

Government + Public

https://niccs.cisa.gov/education-training/federal-virtual-training-environment-fedvte



High School Students

The AZ Cyber Initiative is dedicated to unlocking opportunities for young people who are interested in cyber and emergent technology. We collaborate with workforce partners across the state to offer programs including **bootcamps**, **internships**, and **mentorships**.

https://azcyber.org

Women



WiCyS has professional and student **communities**, **professional development programs**, **mentor/mentee programs**, virtual and inperson **conferences/career fairs**, **Job Board++**, **resources**, and **events** for women in cybersecurity and their supporters.

https://www.wicys.org/wicys-phoenix-az



Women's Society of Cyberjutsu (WSC) mission is to advance women in cybersecurity careers by providing programs and partnerships that promote hands-on training, networking, education, mentoring, resource-sharing and other professional opportunities.

https://womenscyberjutsu.org



Women's Cyber Academy

An intensive, accelerated training program that provides SANS world-class **training** and GIAC certifications to quickly and effectively launch careers in cybersecurity. SANS Cyber Academies are 100% scholarship-based, at **no cost to participants**.

https://www.sans.org/cyber-academy/womens-academy

Veterans

NICCS®

Cybersecurity for Veterans

To help Veterans enter this rewarding career field, CISA provides **Cybersecurity Training** and **Education for Veterans**: A user guide for those who formerly served in the U.S. Armed Forces. This guide includes a variety of **tools** and **resources** to help Veterans begin a career in cybersecurity including **free online training** and **certification prep courses**, information on cybersecurity-related degree programs and **scholarships**, and much more.

https://niccs.cisa.gov/education-training/cybersecurity-veterans



Career Preparation and Educational Topics

Federal Resources for Veteran Job Seekers

Non-Profit Resources

https://www.nist.gov/itl/applied-cybersecurity/nice/resources/veteran-resources

Underrepresented



Minorities in Cybersecurity (MiC) – our mission to provide **practical knowledge**, **training**, **development**, and **support** to our members with the sole purpose of preparing them to become the next generation of global cybersecurity leaders.

https://www.mincybsec.org



The IOBSE is dedicated to providing quality security and management **focused educational programs**. These programs are designed to serve members at all career levels from students to practitioners to senior executives.

https://iobse.org



To achieve the consistent representation of women, underrepresented communities, and all veterans in the cybersecurity industry through programs including **career exploration**, **mentorship**, **and community** designed to diversify, educate, and empower.

https://www.cyversity.org

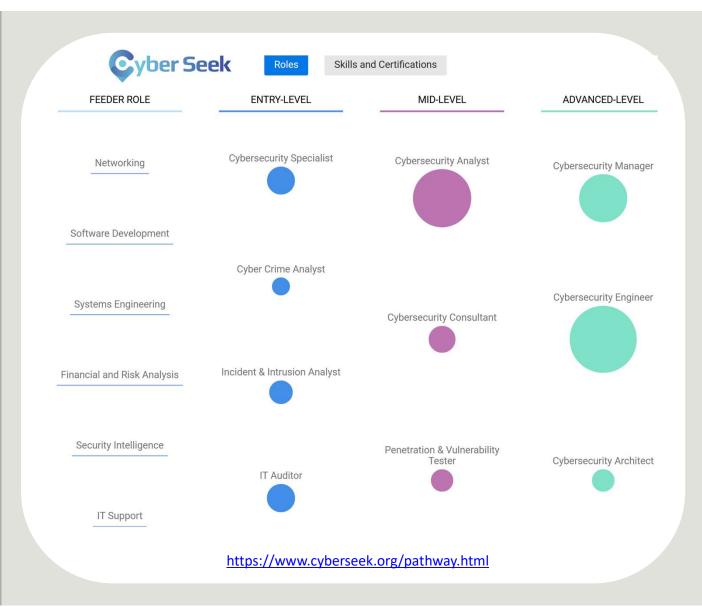
https://www.cyberdegrees.org/resources/cybersecurity-resources-for-underrepresented-populations



IT Industry

Cybersecurity Career Pathways





Non-IT to Cybersecurity





InfoSec Sherpa

Tracy Maleeff (@InfosecSherpa) was a professional law Librarian and at the top of her game. Looking for change and meaning, she searched until she found the field of Information Security.

https://www.gettingintoinfosec.com/videos/infosecsherpa-fromtravel-agent-to-law-librarian-to-security-analyst

GETTING INTO INFOSEC

Podcast with unique stories of **how people got jobs in Information Security** (aka cybersecurity). Hear stories of **librarians**, **hair dressers**, **mechanics**, and **more** finding their path into the security field!

https://www.youtube.com/channel/UCg6gV gdfc188HZdN8LUx4A

Breaking Into Cybersecurity Key Skills and Certifications

Security Analyst

Certifications









Core Skills and Hands On Learning



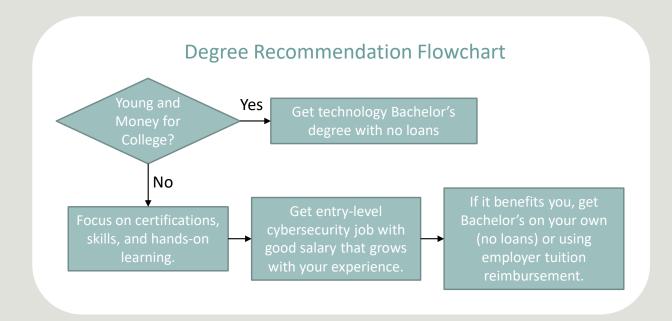




Sources

<u>Federal Cyber Defense Skilling Academy - Cyber Defense Analyst Skills</u> <u>BowTiedCyber Cybersecurity Career Roadmap</u>

No College Degree



Highly Affordable, High Quality Bachelor's Degree

Phoenix College - Bachelor's of Applied Science in Information Technology

Students will be prepared to pursue a variety of occupations within the IT industry, such as Network or Database Administrators, IT Project Managers or Systems Analysts, and Cyber Security Specialists.

https://www.maricopa.edu/degrees-certificates/bachelors-degrees/information-technology-bas

Applying for Cyber Jobs

Resume



1 Page Resume Application Tracking Software (ATS) friendly

Top Platforms





Job Applications



Lots of Applications 1K++
In Person Whenever Possible

Disconnects



Entry-Level jobs asking for CISSP and Bachelor's Degree

Cybersecurity Career

Keys to Long-Term Success

Keep Learning



Industry Trends Advanced Certifications

Share Ideas



Share What You Know

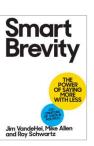
Mentor and Encourage



Help Others at Every Opportunity

Communication Skills





Make All Your Communications High Quality



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www.linkedin.com/in/mariabrown

Presentation At: https://tinyurl.com/mbrown999

