How to start and build a CyberSecurity Career



Pace & Space (5 min Q&A @ End) 45 Min / 27 Slides = 1:30m Per

## Starting a Cybersecurity career



confusing?



# Why is it called Breaking in?

How it was done over a decade ago, isn't something we can keep doing today.

The need is too high, too strong, and we simply need more people than the old way can support.

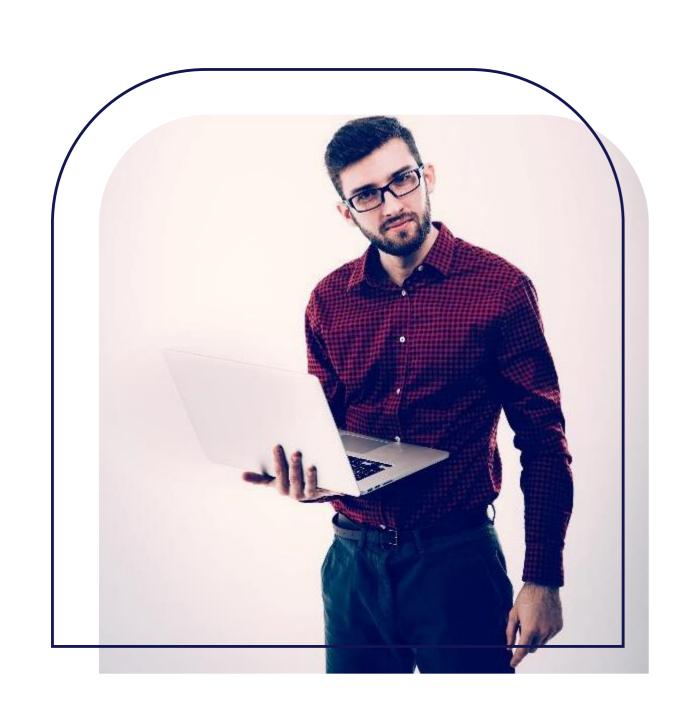
### Neckbeards

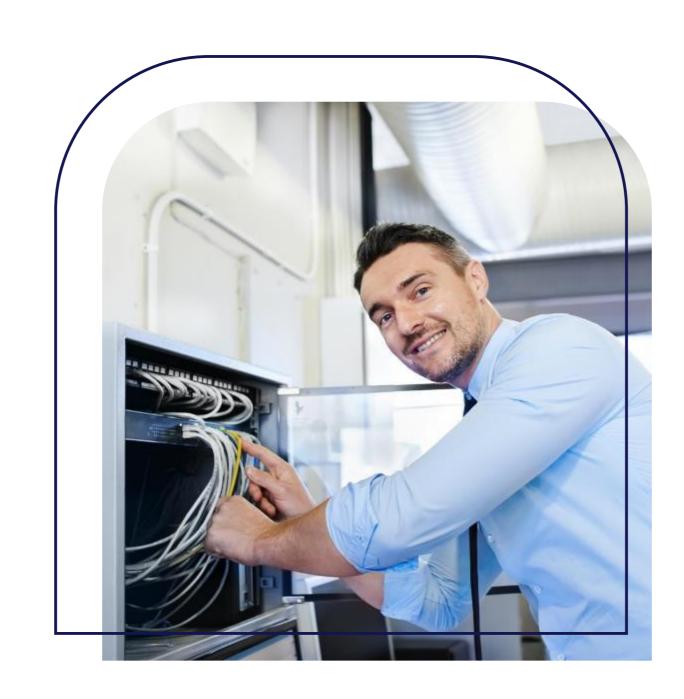
# Grouchy Computer People (so angry)

• Can be seen as pedantic, overly focused on niche interests, condescending, or antisocial.



# The way it used to be (10+ years)







#### System Administrator

Sysadmins understand operating systems, networks, software applications, and hardware configurations. This foundational knowledge is crucial for understanding attack vectors and vulnerabilities.

#### Network Engineer

Having deep knowledge about network configurations, protocols, and services allows for better understanding of network-based threats and how to mitigate them.

#### Software Developer

Developers understand the intricacies of software design, data structures, algorithms, and system architecture, which are vital when evaluating vulnerabilities or designing secure software.



### No longer works

We have to change

With the increasing number and sophistication of cyber threats, the demand for skilled cybersecurity professionals has skyrocketed.



#### Recruiters

Don't really know enough, or understand the industry enough to find the right candidate.

#### **Applicants**

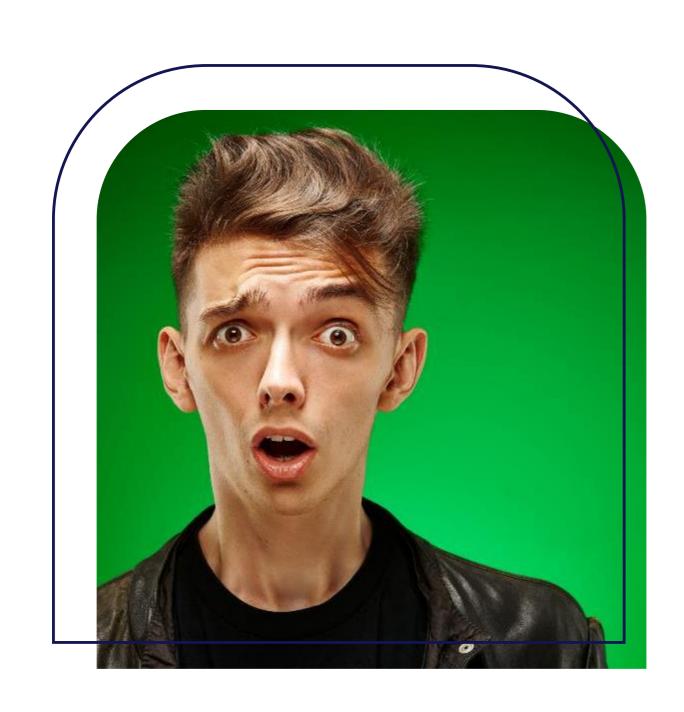
Don't understand "the game", what it takes, and how long it takes to obtain a position.

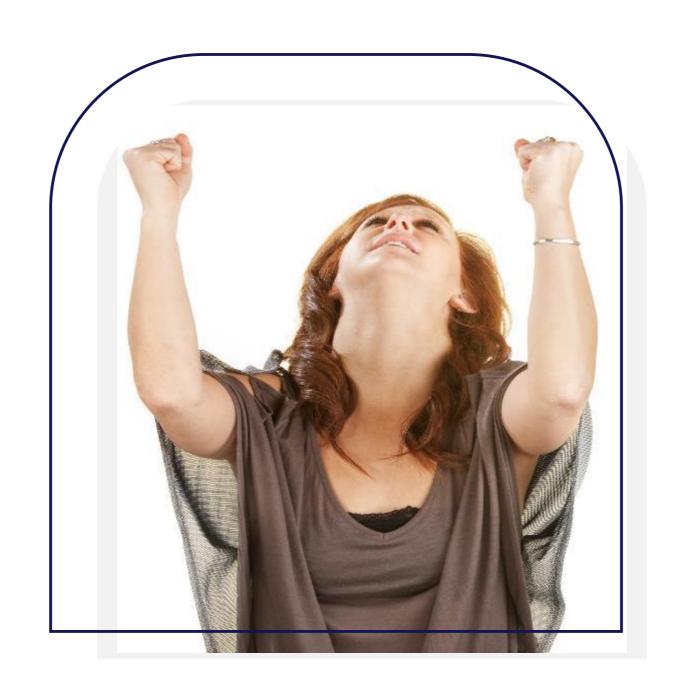


### Where are the jobs?



# Looking for a job 'be like'







Confusing

Overwhelming
Vague Job Descriptions
Multiple Tracking Systems
Lack of Feedback

Frustrating

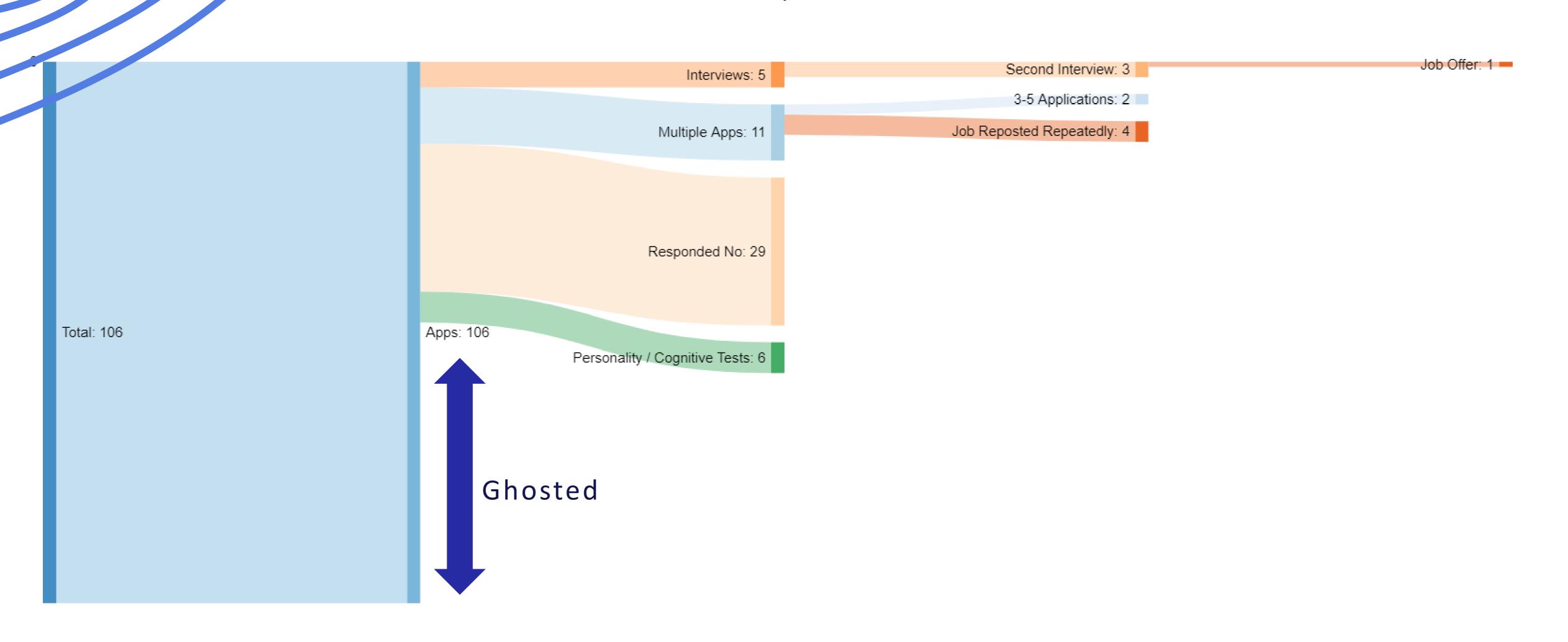
Rejection
Inconsistent Responses
Long and Disparate processes
Impersonal

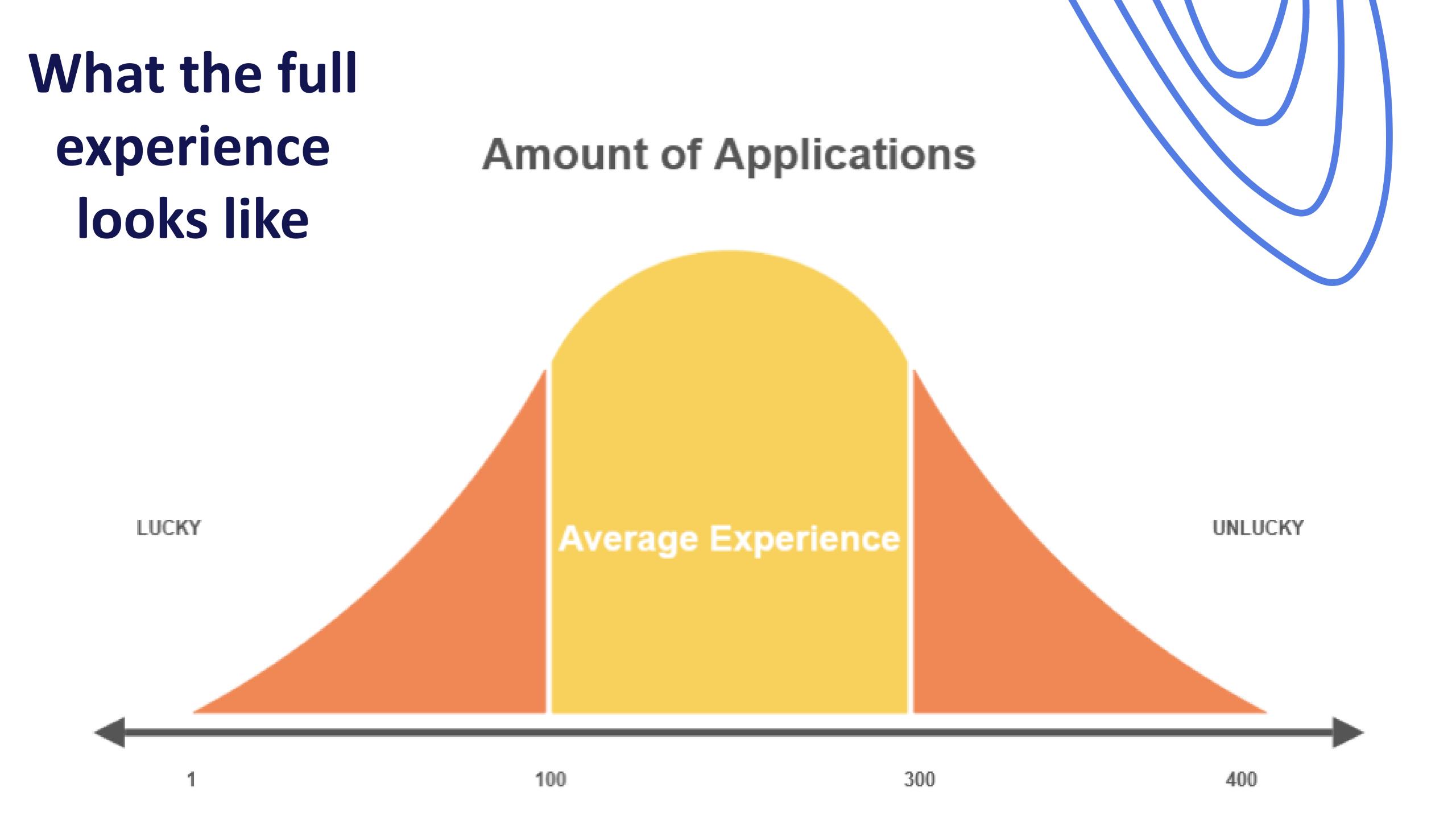
Painful

Vulnerable
Uncertainty
Identity
Self Worth

### What a easy job hunt look like

Actual Experience





# How long? (It is just maths)

Number of applications needed (Worst Case) 400 Number of applications per week 400 Time to Success in weeks 57.1 Time to Success in Months 14.3

# How long? (It is just maths)

Number of a	applications nee	ded (Worst Case)	400	
	Number of appli	cations per week	14	
400		14		
	Time to	Success in weeks	28.6	
	Time to Si	uccess in Months	7.14	



### Effort and Time



- Perseverance
- Fierce interest
- Emotional Management
- Understanding the Game
- NOT giving up



In person / Relocate?



Remote?

"A goal without a plan is only a dream."

- Brian Tracy



### Having a Plan

#### HAVE TARGETS

Identify 1-3 Work Roles
"I don't care; I'll take any
job just won't do."

#### **CONDUCT RESEARCH**

Understand clearly what it takes to become attractive for those work roles

# PROFESSIONAL ASSOCIATIONS

Identify, select, and join relevant associations

#### SOCIAL NETWORKING

Build & Nurture LinkedIn

Attend local cybersecurity

events and build your

social connections

#### **IMPROVE ONESELF**

Develop your Skills
Obtain Certifications
Improve your Abilities

#### HEALTH ENGAGEMENT

Physical Health
Mental Health
Emotional Health

### Major Work Roles



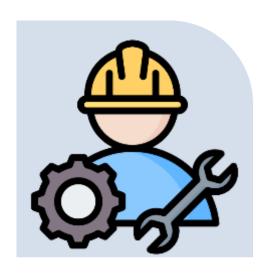
#### **ANALYST**

Primarily focused on Detection and Response.



#### ARCHITECT

Designs the overarching security infrastructure and strategy.



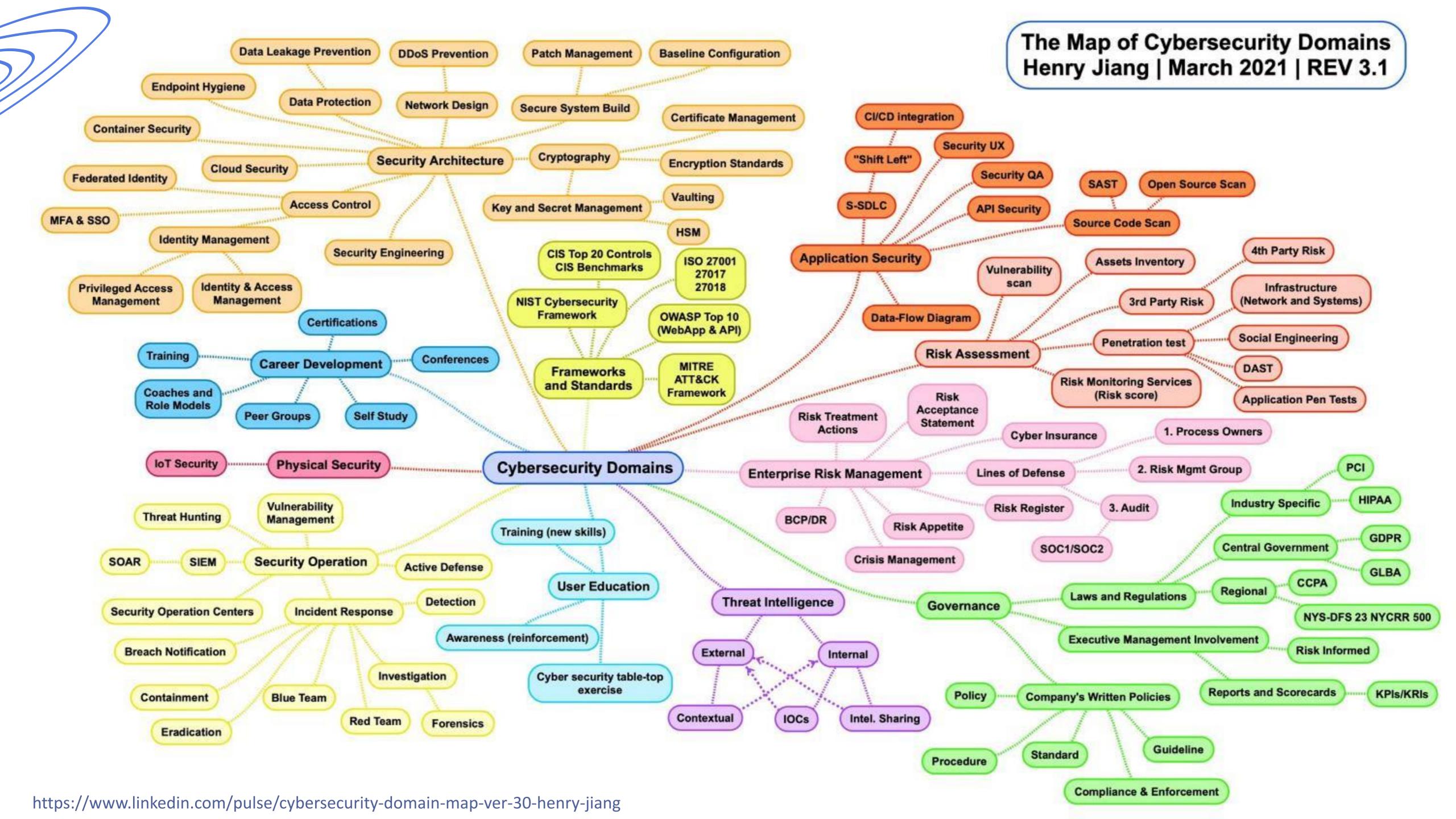
#### **ENGINEER**

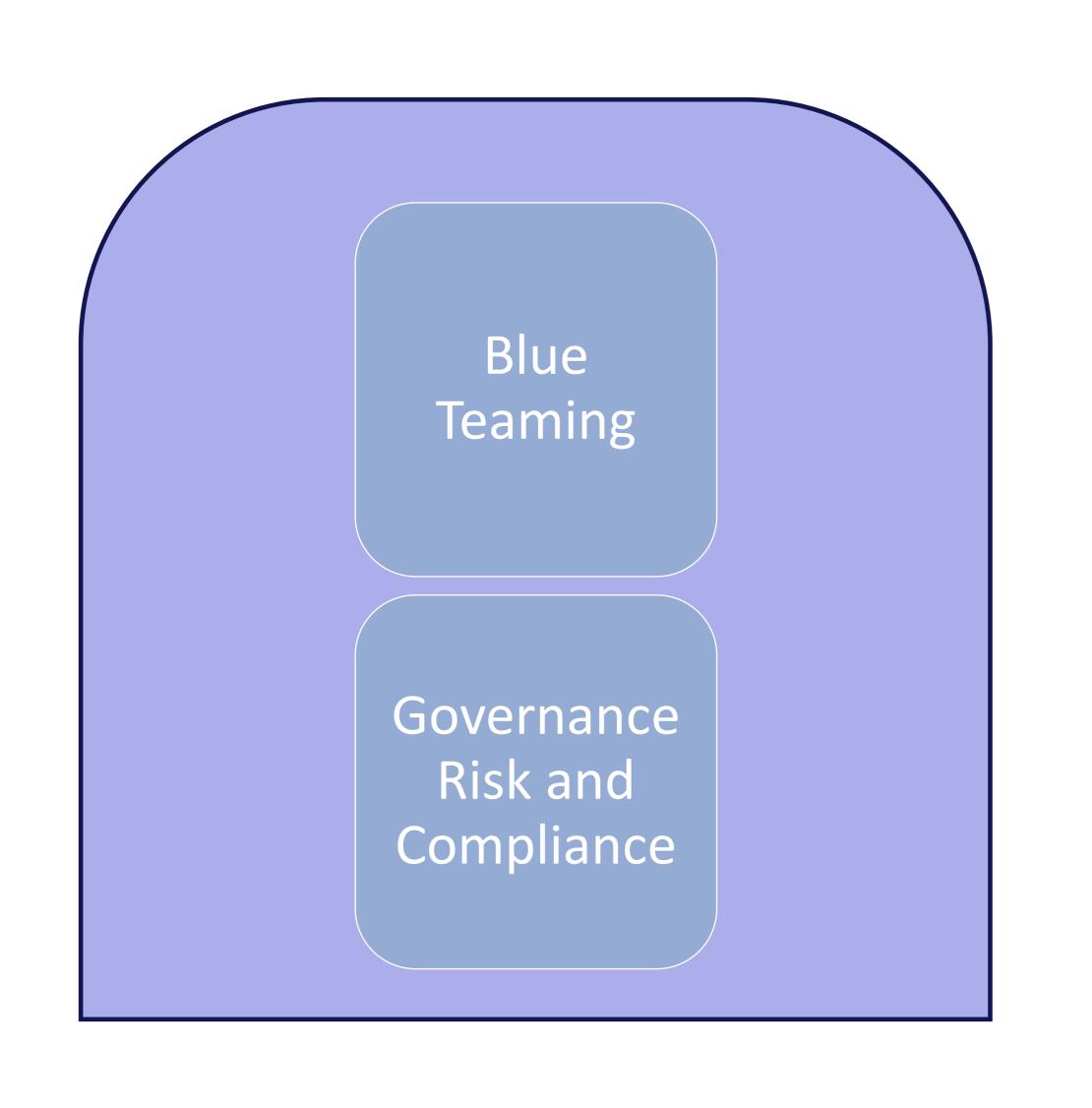
Designs, implements and maintains security solutions.



#### CONSULTANT

Provides expert guidance and advance on cybersecurity to organizations.





## **Entry Level Zones**

#### Have to start SOMEWHERE

Most CyberSecurity Roles are not directly accessible from Entry Level.

### **Entry Level Analyst Roles**

**Network Security Analyst** 

**Information Security Analyst** 

CyberSecurity Analyst

**Endpoint Security Analyst** 

**Cloud Security Analyst** 

Threat Intelligence Analyst

Vulnerability Management Analyst

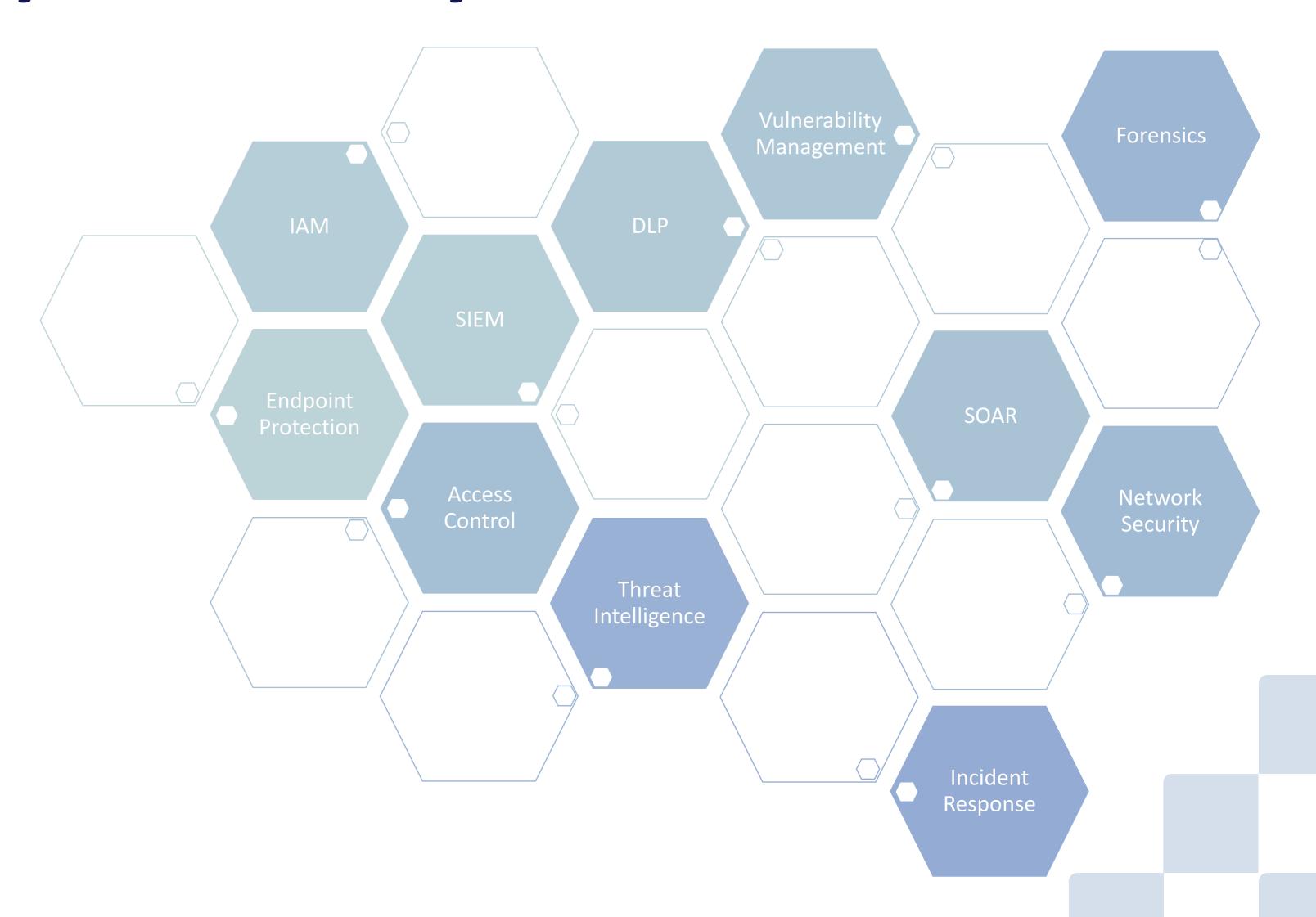
Security Compliance Analyst

SOC Analyst

Incident Response Analyst

**Digital Forensics Analyst** 

**Application Security Analyst** 



### Entry Level Engineering Roles

Network Security Engineer

CyberSecurity Engineer

Cloud Security Engineer

**Endpoint Security Engineer** 

Infrastructure Security Engineer

IAM Security Engineer

Incident Response Engineer

Application Security Engineer



### Entry Level Architecture Roles

**Enterprise Security Architect** 

Network Security Architect

Cloud Security Architect

**Endpoint Security Architect** 

IAM Security Architect

Zero Trust Architect

**Security Solutions Architect** 

Data Security Architect



### **Entry Level Consultant Roles**

Information Security Consultant

IAM Security Consultant

**Network Security Consultant** 

**Cloud Security Consultant** 

**CyberSecurity Consultant** 

Incident Response Consultant

**Digital Forensics Consultant** 

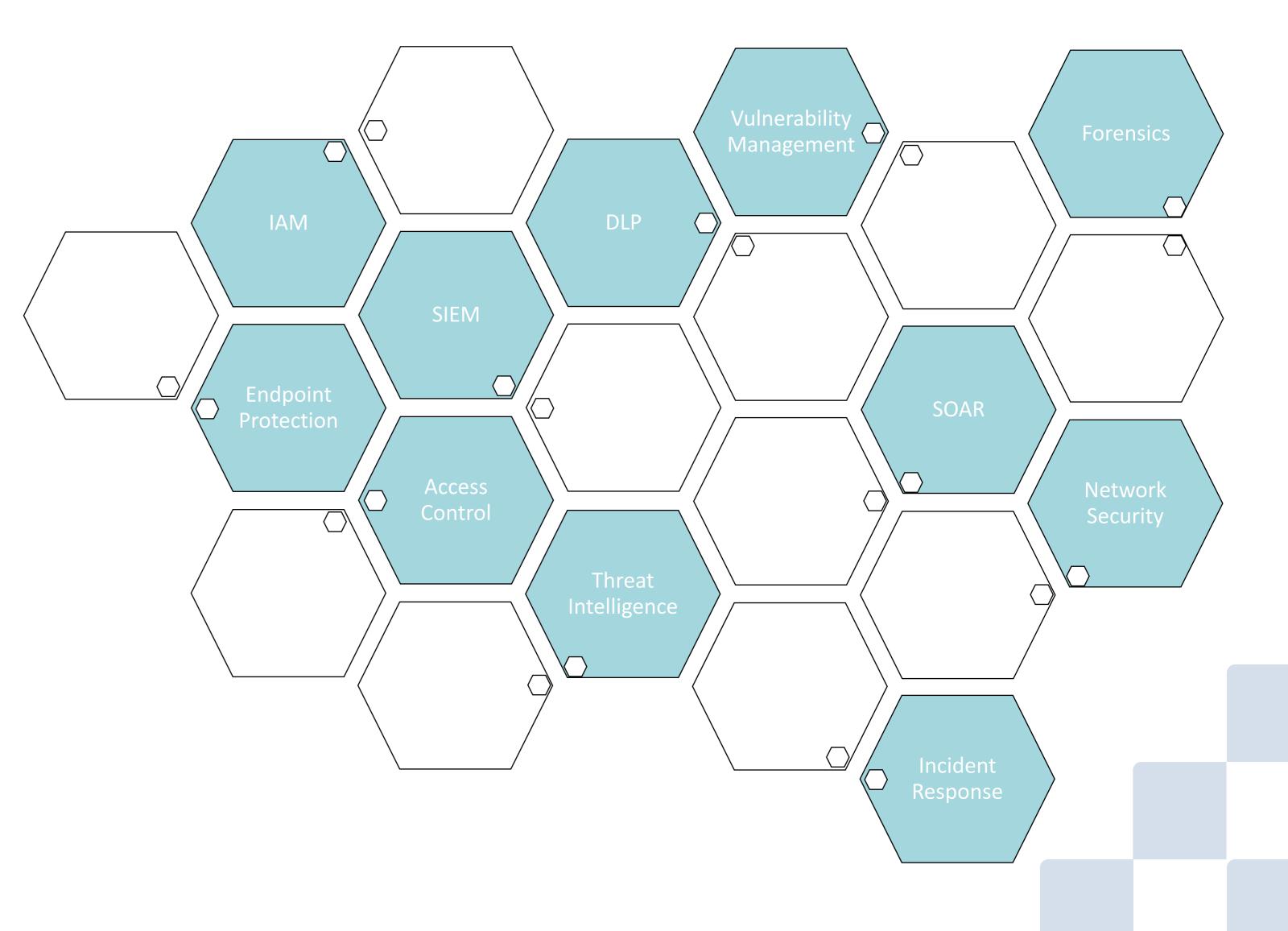
**GRC Consultant** 

**Application Security Consultant** 

**IoT Security Consultant** 

Security Awareness Consultant

**Application Security Consultant** 



### Entry Level GRC Roles

Governance Analyst

Compliance Analyst

3rd Party Risk Analyst

Policy & Procedure Analyst

Privacy Analyst

ISSO (Information Security Officer)

Risk Analyst

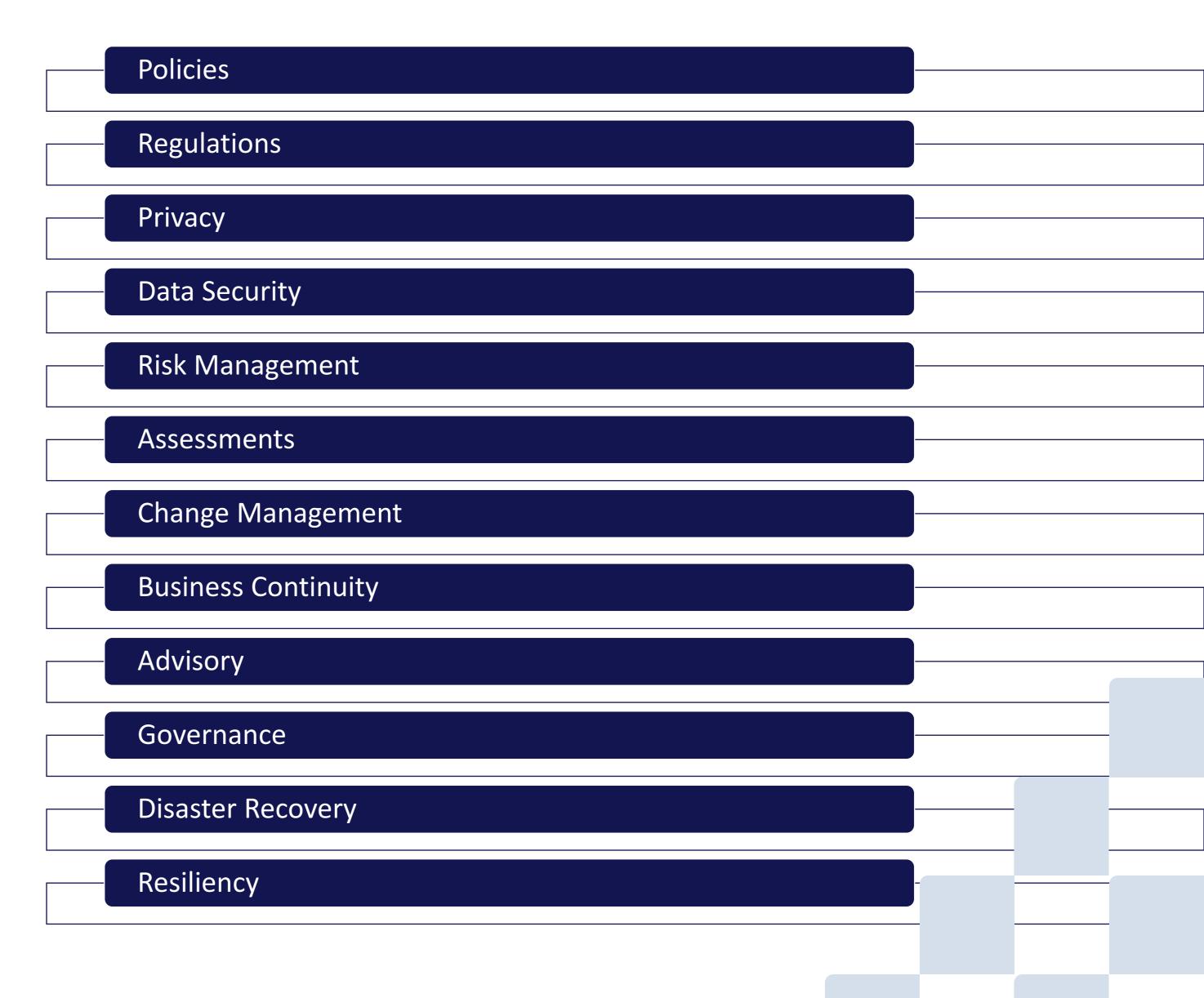
Risk Advisory

Risk Assessment

Service Delivery Manager

Technical Account Manager

Technical Project Manager





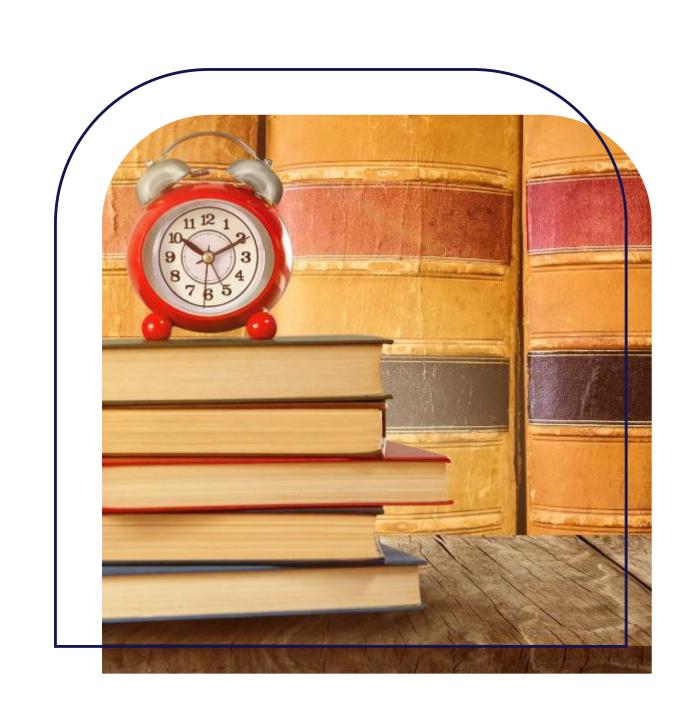
# It is clear what CISOs want

#### PICK a ROLE

After years of first-person engagement with CISOs and hiring managers across the cybersecurity industry, they don't want to see your name on every application they get across the company.

PICK A ROLE

### The many paths one can take.







#### **SELF TAUGHT**

Skill Development
Flexible
Portfolio Building
Social Networking
Problem Solving

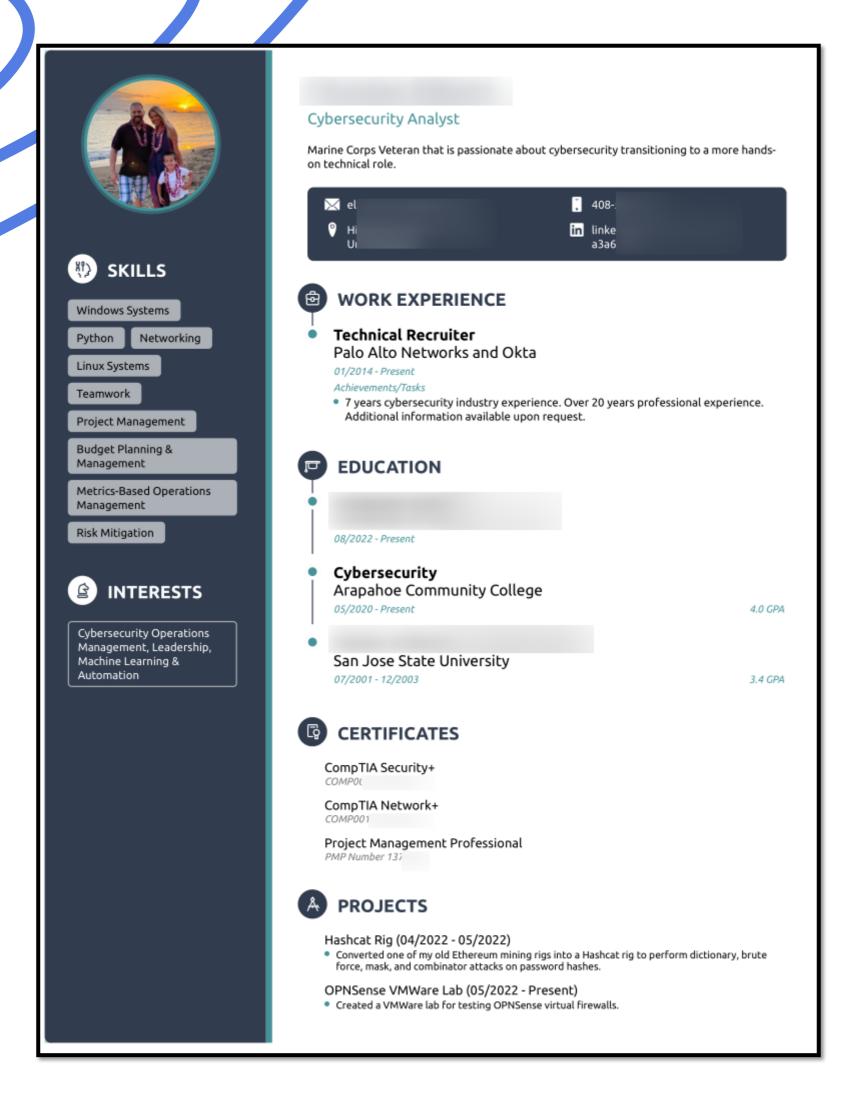
#### **EDUCATION**

Academia
Boot Camps
Certifications
Badges
Self-Taught

#### **CERTIFICATIONS**

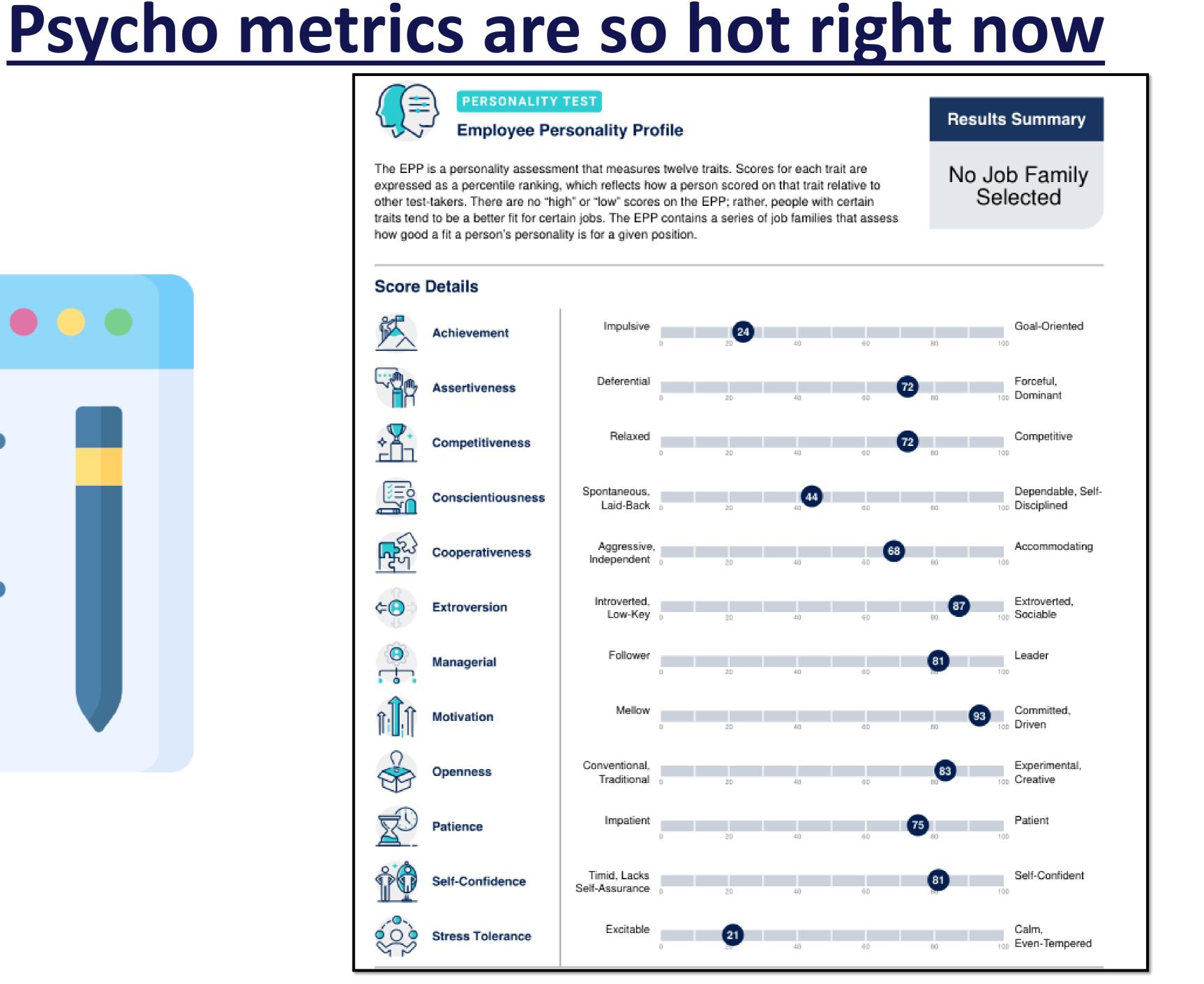
CompTIA Sec+
CompTIA Net+
CompTIA CYSA+
Cloud+ / CCSK

### Modern Resumes











### Final Words

### Control what you can And let go of the rest

While we cannot control the job market, company hiring timelines, or the preferences of recruiters, we can control our preparation, mindset, and approach.



Slides and Handouts available online at:

Thank you

### Keep a eye out

Building an entire cybersecurity program from zero to HERO over the next few years.

#### **Comprehensive Program**

- Economically Viable
- Textbooks
- Videos
- Hands on Labs
- Tutoring & Mentorship

https://github.com/black-tower/build-cyber-career