

DIGITAL DEFENSE 2019

# CYBER SECURITY CAREERS

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# Topics

- Why InfoSec?
- Paths to a career
- Roles in Cybersecurity
- Ethics
- Digital Defense
- Questions?

# THE LANDSCAPE

A black and white aerial photograph of a dense urban landscape, likely New York City, showing a high concentration of skyscrapers and a body of water in the distance.

TRADITIONAL JOBS  
ACROSS ALL SECTORS  
ARE CHANGING OR  
DYING

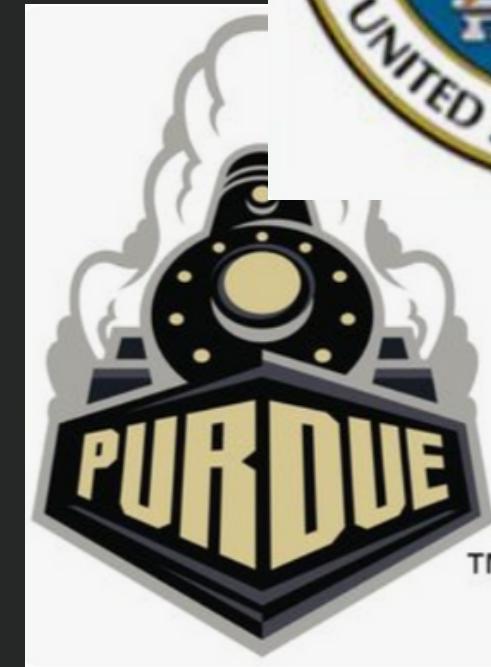
MANY PATHS AVAILABLE  
INTO THE FIELD

DEMAND FOR  
SPECIALISTS CONTINUES  
TO GROW

ENTIRE ECOSYSTEM OF  
JOB ROLES FROM  
TECHNICAL TO  
MANAGEMENT

# PATHS TO A CAREER

There are many ways to break into the field



# ROLES IN CYBER SECURITY



## SECURITY ANALYST

ORGANIZATIONAL  
GENERALIST



CODE AUDITOR  
*ADVISE DEVELOPERS  
ON POTENTIAL  
PROBLEMS*



## PENETRATION TESTER

*SIMULATE ATTACKS TO  
STRENGTHEN  
SYSTEMS*

# ROLES IN CYBER SECURITY



## DIGITAL FORENSICS

*Law Enforcement,  
Private Investigations*



## INCIDENT HANDLER

*Mitigate Breaches and Incidents.*



## CISO

*Managing Organizational Security*

# Foundational Knowledge

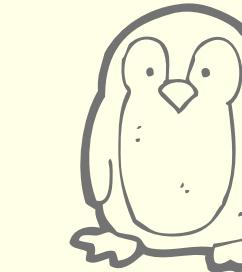
THINGS JUST ABOUT  
EVERYBODY IN THE  
FIELD WORKS WITH  
REGULARLY



TCP/IP



Virtual Machines



Linux Command Line



HTML/CSS/JS



Programming Basics

# ETHICS AND SAFETY

## NO HIDING

*EXPERIENCED  
HACKERS WITH  
GOVERNMENT  
BACKING GET  
CAUGHT OFTEN,  
SO WILL YOU.*

## GOOD TOOLS == BAD TOOLS

*INFOSEC TTP'S  
ARE INCREDIBLY  
POWERFUL AND  
EASY TO MISUSE  
INTENTIONALLY  
OR NOT*

## READ THE CFAA

*DO NOTHING  
YOU DON'T HAVE  
EXPRESSED  
PERMISSION FOR  
ON A SYSTEM  
YOU DON'T OWN*

# INDUSTRY CERTIFICATIONS



## EC-Council

Hackers are here. Where are you?



secure the future

# BUREAU OF DIGITAL DEFENSE

The background of the image is a dark, moody forest scene. The trees are silhouetted against a very bright, overexposed sky, creating a high-contrast, ethereal look. The foreground is mostly in deep shadow, while the middle ground shows more detail of the tree tops.

**QUESTIONS?**



THANK YOU!

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