



Demystifying the Digital Detective

Life of a DFIR Consultant

WAKE UP EXCERCISE

- NBA
- Comics
- Anime
- Human-Centric Design
- Drawing/Digital Art
- Paleontology/Dinosaurs
- CYBERSECURITY



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Kalamazoo, MI -> Grand Rapids, MI



- Jailbreaking iPhones
- Helpdesk
- System Administrator
- Cybersecurity Analyst
- DFIR



What is DFIR?





Digital Forensics

Detective

Collecting, preserving, analyzing, and presenting digital evidence.

DFIR



Incident Response

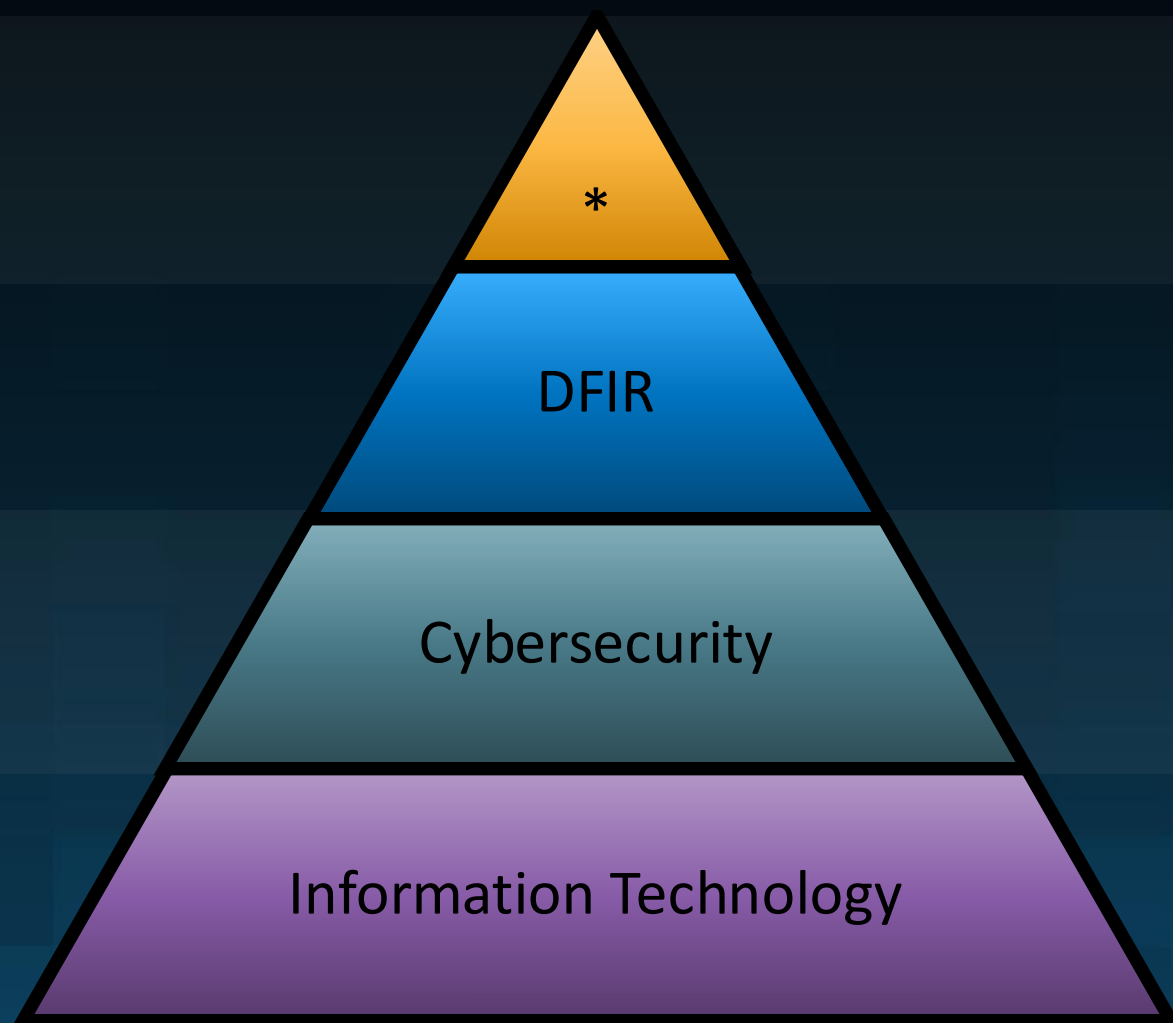
Firefighter

Identifying, managing, and mitigating security breaches or attacks.

Responding to significant cybersecurity events through analysis and planning.



Where does it fit in IT?



DFIR Specialization

Focused skillsets around unique situations.

DFIR

Specialized investigation and analysis.

Cybersecurity

Protection of an organization's IT assets.

Information Technology

Utilizing and managing technology within organizations.



Job Description



Forensic Investigator

Digital Evidence Examiner

Cyber Analyst

Threat Detection Analyst

IT Helpdesk

Incident Commander

Detection
Engineer

Incident Responder

Threat Hunter

System Administrator

DFIR Specialist

Forensic Examiner

Incident Response
Engineer

DFIR Consultant

SOC Analyst

Engineer

DFIR Analyst



The Job on Paper

SPOILERS: Don't worry too much about the specifics

DFIR Job

Experience

- 1-3 years of DFIR experience
- 3-6 years of IT/Cyber experience

Education

- Relevant Cybersecurity Bachelor's or Master's

Certifications

- GCIH, GCFA
- Security+

Skills & Knowledge

- Multiple cybersecurity tools
- Programming language(s)
- All operating systems



Day-to-Day



Realities of the Job



No day is ever the same



On-Call rotations



Volatile workload



Volatile emotional state



No clear schedule



Flexibility and adaptation



Type of Work

Not everyday is an incident

Reactive

Emergency Response

Threat Intelligence

Consultancy

Proactive

IR Plans & Playbooks

Tabletop Exercises

Threat Hunting



The Team



Incident Team

Incident Commander



Leads the team and
makes decisions

Incident Analyst/Consultant



Technical analysis and
recommendations

Threat Intelligence



Supportive analysis and
contextual research



Who you work with

The incident team aren't the only ones

C-Level

Managers

Project Team

IT Engineering

IT Support

Legal

Partners

Customers



Skillset



Technical Skills

Acquisition

- Disk Imaging
- Memory
- Network
- Cloud
- Triage

Analysis

- Forensic Artifacts
- Logs
- Malware
- Reputation Lookup
- Timeline Creation

IT Operations

- What does an enterprise IT network look like?
- What does an enterprise IT network contain?

Research

- Keeping up with the bad guys
- What do adversaries want?
- How do they “hack”?



Soft Skills

Communication

- High pressure situations and calming presence
- Simplify advanced security/IT concepts
- Explaining what needs to be done and why

Note Taking

- Sharing information with your team and customers
- Explain your brain
- Repeatable processes, scientific method

Reporting

- Explain what happened
- Influence the correct decisions
- Speak to your work



Job Opportunities



Where can you work?



DFIR/Consultancy Organizations



Law Enforcement



Auditing



Managed Service Provider (MSP)



Internal



Tips to get you in the field



- Experience doesn't just have to be work-related (education, personal projects, research)
- Time is relative, don't stress too much about the years listed



- Can you explain DFIR concepts
- Incident Response Lifecycle
- What you actually do at each stage



- Explain what a tool does, even if you don't have direct experience
- Adjacent tools is often enough



Who is this job for?



Do you revel in the chaos of change?



Do you want to help people on their worst days?



Do you like learning how technology works and how it breaks?



THANK YOU!

Questions?



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thank you!



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