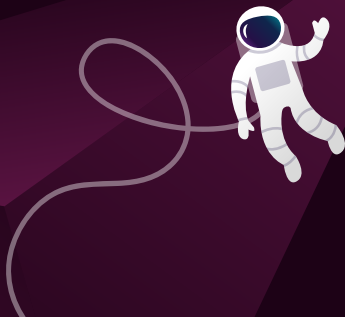


THE LIFELONG ADVENTURE OF LEARNING CYBER SECURITY & DFIR

How Did I
Get Here?

By @j3st3rjam3s



Hi Mom!
Hi Dad!
Hi Fam!
I Love You 3000!



HELLO!

My Name Is JAMES KAINTH

I am here to talk about how I got to here ;)

You can find me at @j3st3rjam3s

jameskainth.com



DISCLAIMER

- There Is More Than One Way To Do It.
- I can give you advice, tips, and tricks, but you and only you can fuel the fire inside to keep going for what I can only hope, will be an adventure for you as it is for me.
- Mental Health Is Important, Take Care of Yourself. Burnout is real. Imposter Syndrome is real.

WHERE ARE YOU?

Phase 1

Beginner



Phase 2

Intermediate



Phase 3

“Advanced”



PAUSE - LET'S TALK FOR A SECOND

- What are your goals?
- Where do you see yourself in 1, 2, 3, years?
- Do you have a position you're aiming to be in?
- Being Human, S.M.A.R.T , kind with yourself





PHASE 1.

STARTING OUT/BEGINNER

MASTER THE FUNDAMENTALS! & EMBRACE THE FIREHOSE*



not overwhelmed by the volume of information having
learning

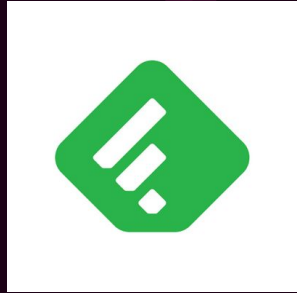
LET'S GET STARTED!

- Computer Networking (Subnetting, Routing, Firewalls, NAT, Packet Tracer, TCP/IP, Wireshark/TCPDump), Python(or any starter programming language), Active Directory & DNS
- Network/System Administration (Powershell, Bash, Large Scale Automation, Ansible, Docker, Kubernetes, Chef, etc.), Set Up Your Own SIEM (Splunk, Elastic Stack)

Set Up Your Own Lab Environment! [Cloud, Virtual (Vmware/VirtualBox/Parallels), Physical]



STAYING UP TO DATE



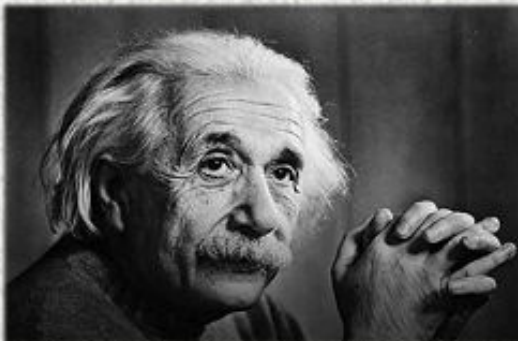
➤ Feedly (Get All Your News In One Place and read it 5 times as fast) #NotASponsor

➤ Podcasts (The Cyberwire, Recorded Future, Hacked: Into The Minds of cyber security Leaders, Darknet Diaries)

➤ Embrace New Technologies Because TBH You Have No Choice 😂



EVERYTHING ADDS UP - SO START WITH A STRONG FOUNDATION



"Compound interest
is the eighth wonder
of the world.

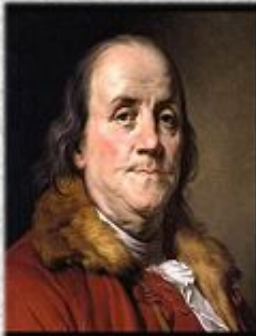
He who understands
it, earns it...
He who doesn't...
pays it."

- Albert Einstein



Read 500 pages every day. That's
how knowledge works. It builds up
like compound interest.

— Warren Buffett —



An investment in knowledge pays the best
interest.

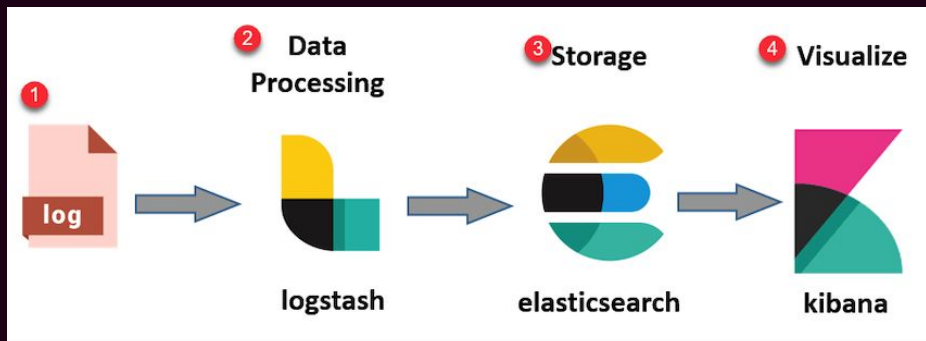
(Benjamin Franklin)



**"The most
important thing
to do is start
investing now so
you can unlock
the power of
compounding."**

DON'T DELAY START THREAT HUNTING TODAY!

- Set Up An Elastic Stack In a Virtual Lab
- Learn about LOLBAS(Living of the Land Binaries and Scripts) because you'll start to see them now on your own computer.



PHASE 2. INTERMEDIATE



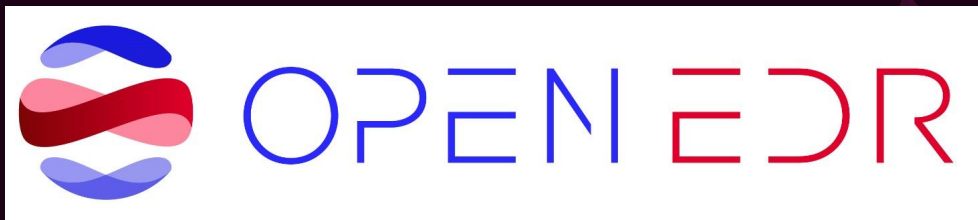
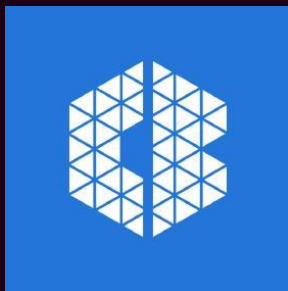
OH GOD

I can see into forever

GOING FROM PADAWAN TO JEDI KNIGHT

- *PenTesting(HackTheBox, OWASP10)*
- Security Operations (SIEMS, EDR/MDR, More Log Analysis)
- Purple Teaming & DF Analysis (Deadbox 4n6, Memory, Event Logs)
- Threat Intelligence [APTs(Advanced Persistent Threats), Indicators of Compromise (IoCs), Tools Tactics and Procedures (TTPs)]

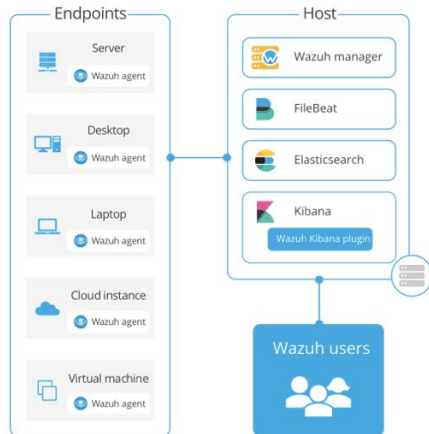
SECURITY OPERATIONS - MONITORING THREATS PROACTIVELY & IN REALTIME



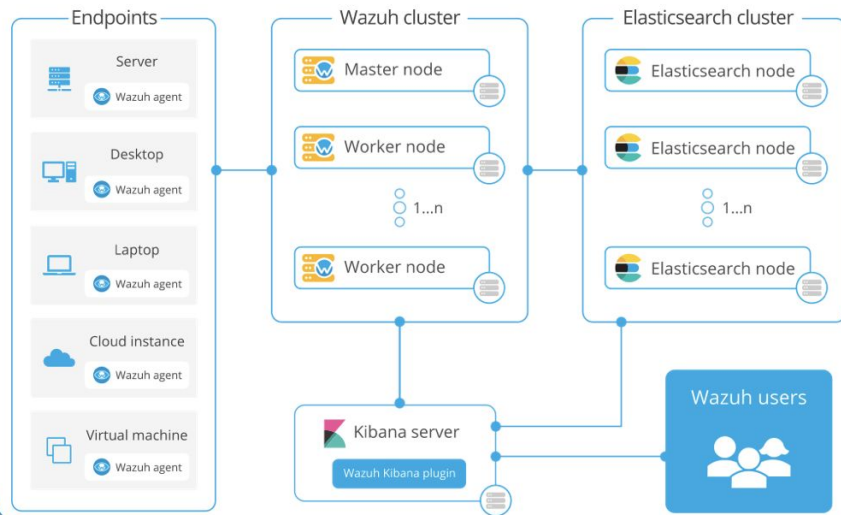
YOUR SECURITY OPERATIONS: EVOLVING FROM SIEM TO EDR

Half of It Is Already Built B/c You Set Up The Elastic Stack Before!

All-in-one deployment



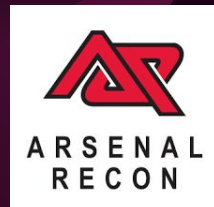
Distributed deployment



PURPLE TEAMING & DF ANALYSIS



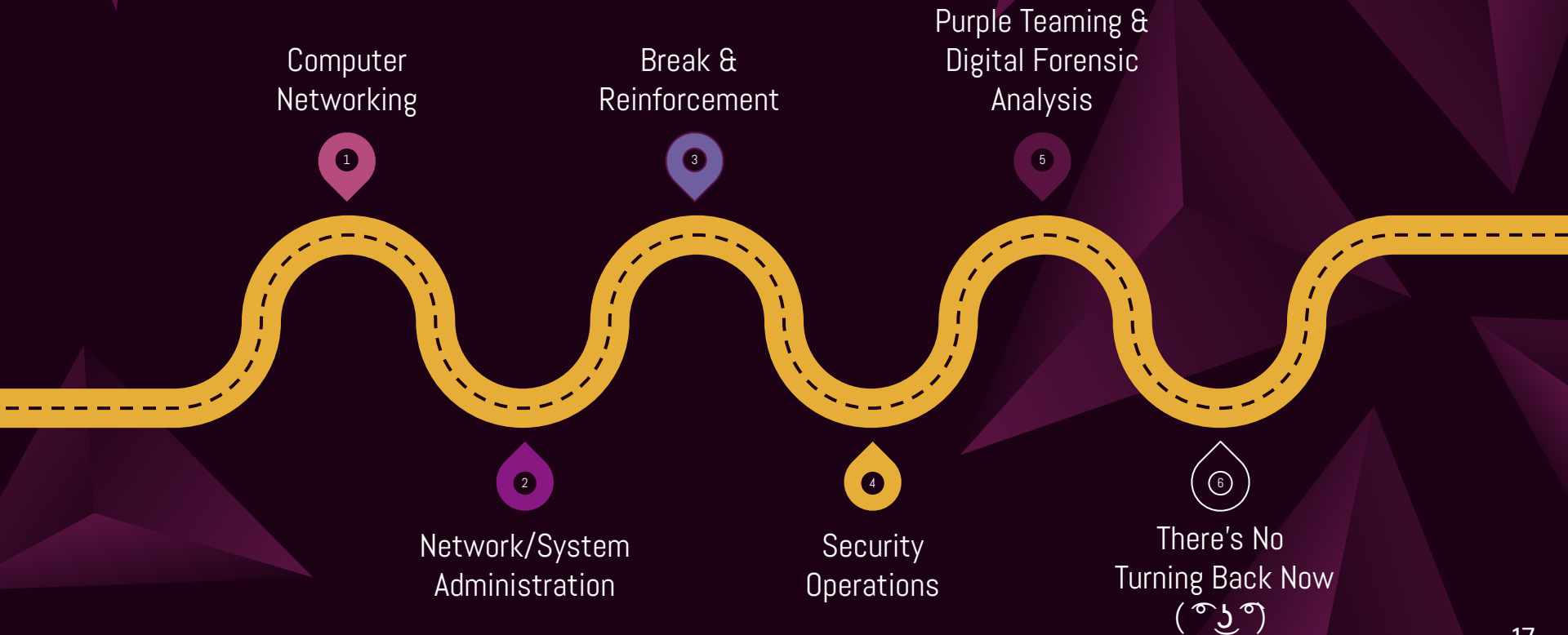
- Purple Teaming (Red Team A VM You Set Up)
- Deadbox Forensics
 - Registry
 - Event Logs
 - Amcache
 - ++ SO MANY MORE ARTIFACTS



- Memory Forensics
- IoCs (Indicators of Compromise) & Yara Rules
- You never know what data you'll have



PLOTTING A COURSE FOR SUCCESS



LEVELING UP!

- Learning New Tools & Building Your Tool Box
- Incident Response & Triage
- Processes & Procedure (Mindset/CYA)
- Crisis Management (Mindset)
- Finding a Job & Team that fits
- You can see see your potential & what's next, while also being able to appreciate how far you've come



FINDING A JOB

SANS

- Networking (LinkedIn, Twitter, Community Discords)
- Home Lab, Testing and Practice Environment
- Take Advantage of Free SANS Resources
- There's a lot of free resources out there
- Communication ("People don't buy what you do, they buy why you do it" - S.S.)
- Talk To Me (I will personally help you, I was a peer career coach in college)



IMPOSTER SYNDROME



➤ Befriend it("Hey Fear, I know you're just looking out for me, but you're not needed right now. I can take it from here."-E.G.)

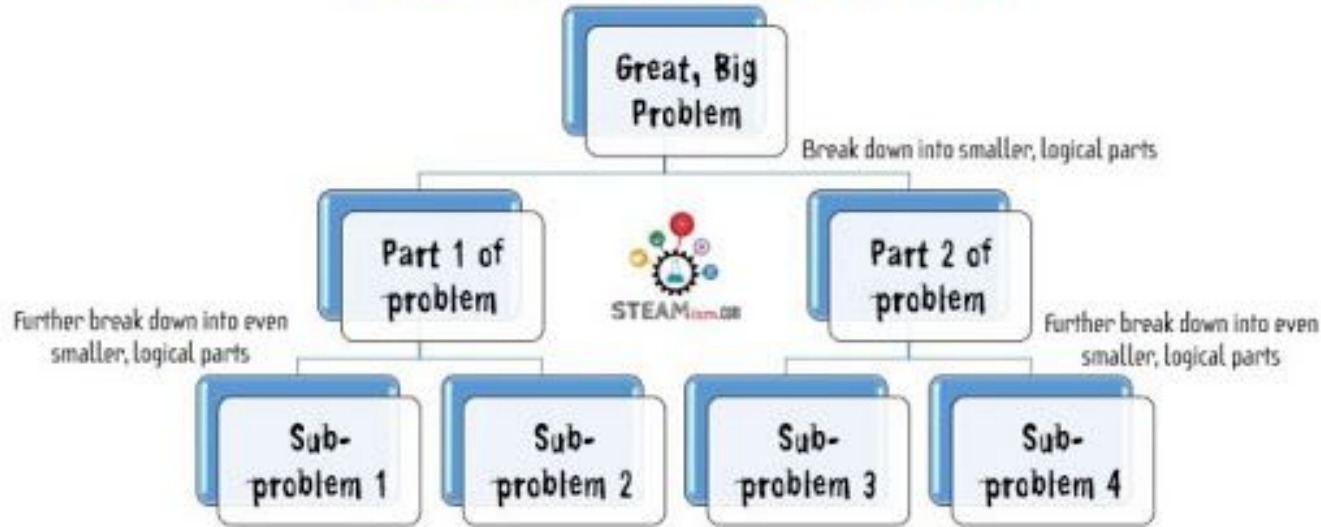
➤ Understand where it comes from

➤ Visualize Success and validate yourself when you progress towards it. Reward yourself

➤ Leverage Psychology [CBT - ACT(Acceptance and Commitment Therapy)]



DECOMPOSITION



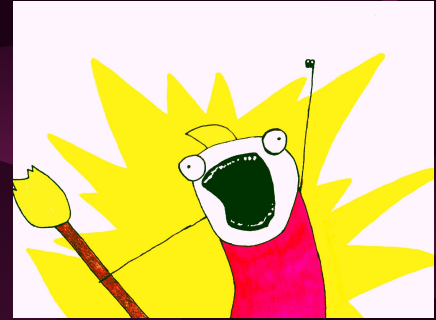
GETTING BETTER AT WHAT YOU DO MEANS YOUR PROBLEMS WILL GET TOUGHER. THAT'S THE NATURE OF GROWTH

PHASE 3. “ADVANCED”

Let's go I got this, let me learn ALL THE THINGS!

BECOMING A JEDI MASTER REQUIRES “ADVANCED” RESEARCH

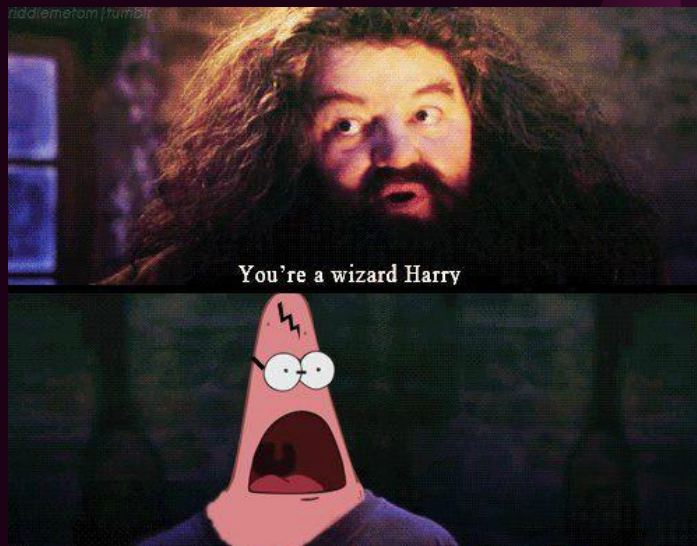
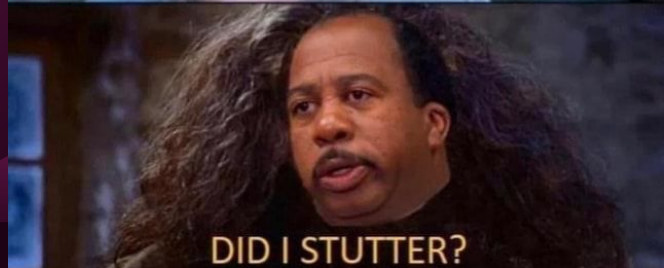
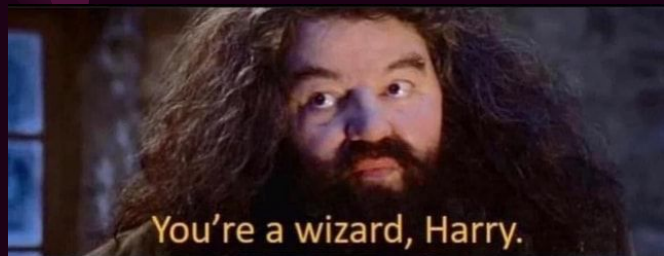
- Time (Be patient)
- 4n6 All The Things!
- Reverse Engineering
- Red Teaming & Exploit Development
- Niche DFIR
- Case By Case Weirdness (Testing Things In a Lab)
- Curiosity & Exploring



NICHE DFIR

- ICS (Industrial Control Systems)
- Drone
- Mobile Device
- IoT
- Cloud
- Blockchain
- SO MANY NICHEs With Not Enough Support!
- MORE ARE ON THE WAY! (Technology progresses - Quantum Computing, AI/ML, etc.)

“ADVANCED” (WHY QUOTES?)





strandjs
@strandjs

I am going to say this again. Security needs to stop being wizards trying to impress other wizards. Focus on the fundamentals. Keep learning.

4:52 PM · Nov 28, 2018 · Twitter for Android

FUNDAMENTALS NEVER CHANGE!
(usually ;) Think TCP/IP & RFCs
for Protocols

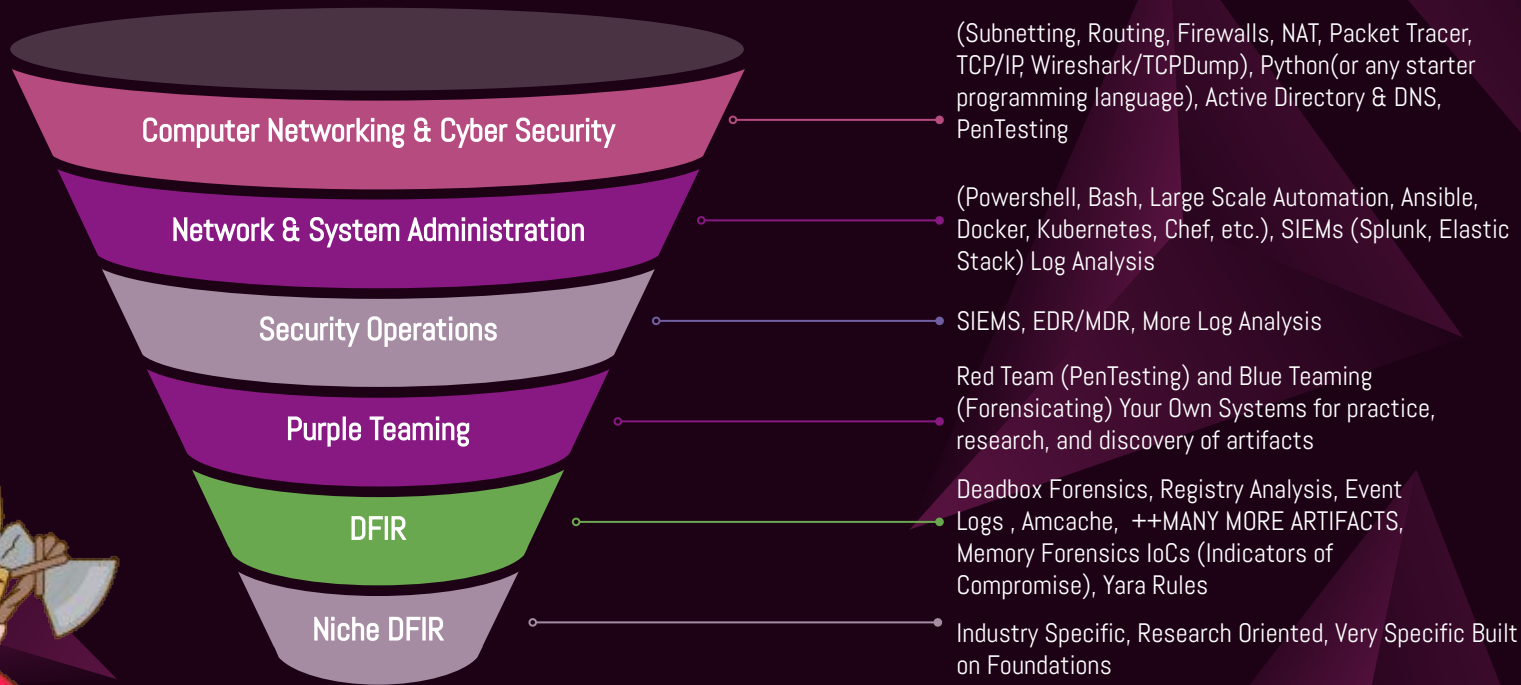


strandjs
@strandjs

I will light the way by the bridges I burn.
Retired Senior SANS Instructor
IANS Faculty
Black Hills Information Security
Active Countermeasures
Security Weekly

📍 Spearfish, SD 🔗 blackhillsinfosec.com

LET'S RECAP



Freelance Service Offerings

Cyber Services

- Incident Response
- Network Engineering
- Computer Repair & Refurbishing
- File/Data Recovery & Digital Forensics
- Home Lab Development/Security (Virtual or Physical)

Web Design

- Portfolio Creation and Design

Career Services

- Resume Review & Updating
- Home Lab Development (Virtual or Physical)



Feel Free To Contact Me Using [The Contact Me Form](#) or [@j3st3rjam3s](#)

QUESTIONS & THANK YOU!



Remember “The Fact
That We Acknowledge
Our Potential Makes It
That Much Closer To
Reality”



Become a
Jester!
Wear Me On A
T-Shirt/Sticker!

Keep In Touch @j3st3rjam3s

JamesKainth.com

The Jesters Castle on Youtube!

<https://bit.ly/TheJestersCastle>

<https://y.at/>   



IMAGE SOURCES

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