



STARTING STRONG: BASICS THAT YOU NEED

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WHO AM I

- ✧ Security Engineer @COMCAST
- ✧ Security Researcher | Licensed Penetration Tester Master | CCIO
- ✧ FOUNDER - Rootecstak and SVCE CyberHub
- ✧ OWASP Cuddalore Chapter - Leader
- ✧ Mentor | Speaker | Blogger

FOR WHO?

- ✓ Young Professionals Starting their careers
- ✓ Experienced professionals moving from one career into Cybersecurity
- ✓ Professionals at all levels wanting to learn more about it to better protect their personal and business lives



GRC VS TECHNICAL

- ✧ Strategic includes Governance, Risk, and Compliance (GRC), Policy, IT Audit, security frameworks and management.
- ✧ Tactical includes everything technical security systems administration, networking, application security, security operations, incident response, vulnerability management, and penetration testing.
- ✧ Pick the one where you have most strength.
- ✧ **Caution:** Don't try to do both but Be aware of the other Side .



WHAT SHOULD I CHOOSE?

- ✓ DEGREE
- ✓ MASTERS
- ✓ CERTIFICATION
- ✓ JOB - HOP IN

ROLES

Non Traditional Cyber Roles

Security Sales Account Manager
Security Project Manager
Cyber Staffing Director
Cybersecurity Attorney
Cyber Insurance Specialist
Technical Writer
Security Awareness Trainer
Customer Success

Traditional Cyber Roles

Security Engineer
Application Security Engineer
Security Analyst
Penetration Tester
Security Administrator
Incident Responder
Security Researcher
Forensic Engineer
Reverse Engineer
Security Auditor
Vulnerability Assessor
Cryptographer
Cryptanalyst
Intrusion Detection Analyst
Firewall Analyst
Malware Analyst
Cyber Threat Intelligence Analyst
Security Sales Engineer
Security Architect

Executive Leadership

Founder
CEO
Chief Information Security Officer (CISO)
Chief Security Officer (CSO)
Privacy Officer
Security Director
Compliance and Risk Manager
Security Product Manager

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CERTIFICATIONS

iapp



CompTIA
Security+

ISACA
Serving IT Governance Professionals



Certified Information
Security Manager*



Certified in Risk
and Information
Systems Control*



Certified in the
Governance of
Enterprise IT*



Certified Information
Systems Auditor*

(ISC)²



Certified
Information
Systems Security
Professional



Certified
Secure
Software Lifecycle
Professional



Systems
Security
Certified
Practitioner



Certified
Authorization
Professional



Certified
Cyber
Forensics
Professional



Health Care
Information
Security
and Privacy
Practitioner



SANS



EC-Council

CCISO

Certified Chief Information Security Officer

CEH

Certified Ethical Hacker

ECIH

EC-Council Certified Incident Handler

LPT

Licensed Penetration Tester

ENSA

EC-Council Network Security Administrator

ECSP

EC-Council Certified Secure Programme

ECSA

EC-Council Certified Security Analyst

CCSCU

Certified Secure Computer User

EC-Council Disaster
Recovery
Professional

HOW TO START

- ↪ knowledge of computer and how Internet works
- ↪ Computer Networks - Protocols,ports,servers,etc | Basics to Advanced
- ↪ Linux Concepts - Learn Linux strongly and practice in Kali
- ↪ Cryptography and Network Security - Encryption,Decryption,Algorithms,etc
- ↪ **CYBERSECURITY** - Practice Strongly and learn new concepts
- ↪ Tryhackme, Hack the Box, Portswigger labs,Capture the flag challenges - To Sharpen your skills
- ↪ Bug Bounty - Lots of practice,patience and efforts.

WHAT TO LEARN

- ✓ Malware and Reverse Engineering: C,C++,C#,Embedded C,Assembly
- ✓ Scripting: Python, Ruby, Perl.
- ✓ Security Testing : Html,css,java script,php,java,SQL
- ✓ Shell Scripting: Bash,Shell Scripting

WHAT YOU SHOULD DO?

- ✧ Projects / Internships
- ✧ Develop Skillsets
- ✧ Attend Meetups and Conferences
- ✧ Stop Searching - Start Implementing

DOMAINS

- ✧ Web Application Security
- ✧ Android Security
- ✧ Cloud Security
- ✧ Cyber Forensics
- ✧ Malware Analysis
- ✧ Red Teaming
- ✧ Vulnerability Assessment & Exploit Development
- ✧ IOT and RFID Pentesting
- ✧ API Pentesting
- ✧ Blockchain & Decentralised Systems
- ✧ Cryptography and Network Security
- ✧ Hardware Security

INTERVIEW PREPARATION

- ✧ Follow the Roadmap
- ✧ Be Strong in Basics
- ✧ Choose domain and prepare accordingly
- ✧ Stay updated in the cybersecurity industry
- ✧ Explain In terms of Real time and its impact
- ✧ Attain Value added Certifications
- ✧ Descent Resume - Projects, Research Works, Achievements
- ✧ Achievements - Hall of fame, CVES , Bounty , Recognition
- ✧ Be passionate and confident

WHAT WE DO

- ✧ Act as a Security Professional
- ✧ Tests the security and identifies loopholes
- ✧ Conduct Threat Modeling
- ✧ Create Reports and analysis
- ✧ Authorized with proper permissions
- ✧ Spread Awareness to students and professionals
- ✧ Earns money and respect too

WHERE IT ENDS

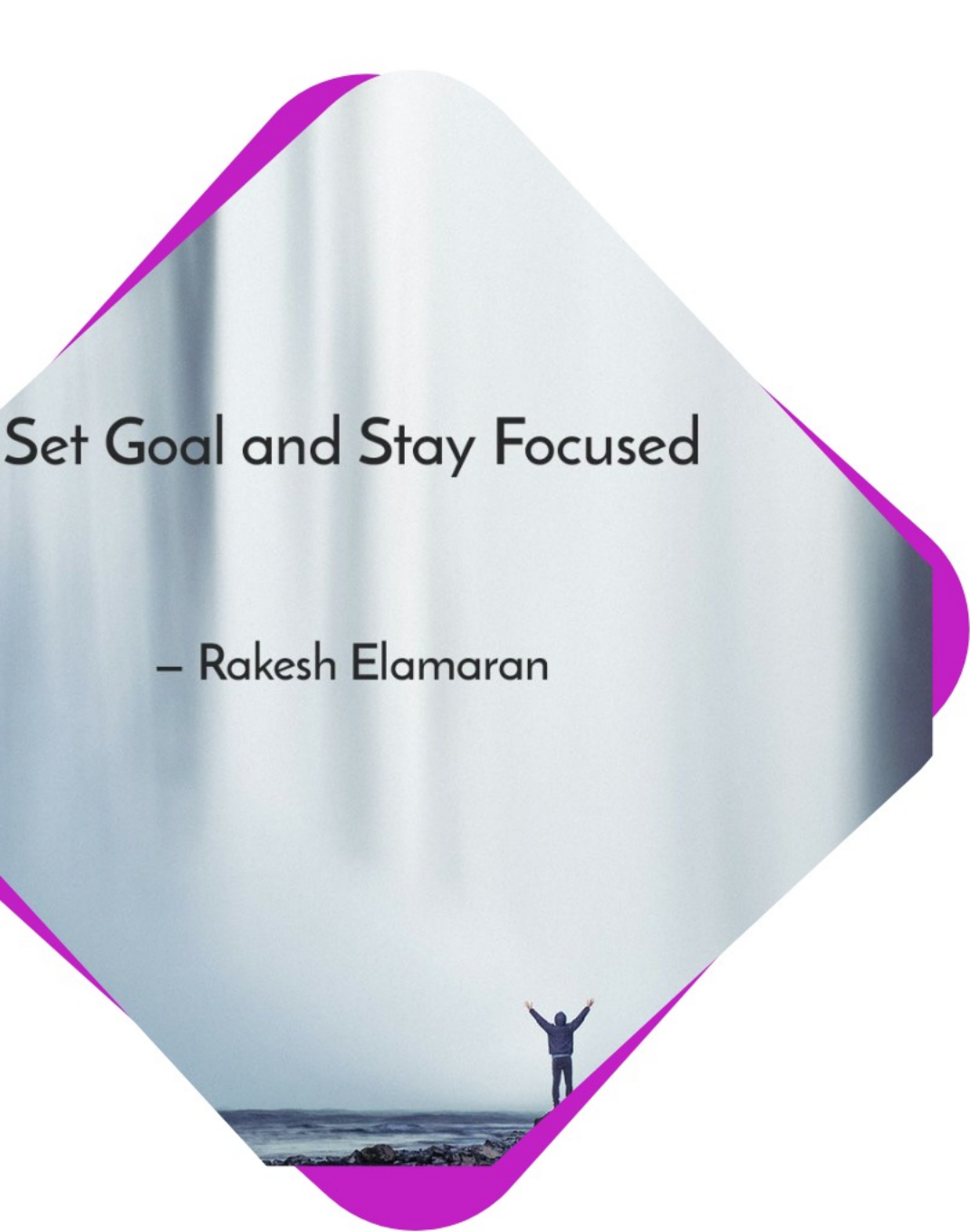
- ✧ Start career as Security Researcher or Associate
- ✧ Cybersecurity Analyst / Consultant - Penetration Tester
- ✧ Cybersecurity Manager / Engineer / Architect
- ✧ Security Director
- ✧ Chief Information Security officer - CISO

HOW CYBERSECURITY IS NOW?

- ↳ Organizations Understood the Importance of security
- ↳ Expanding Security Teams
- ↳ Conducting Threat Modeling
- ↳ IOT and Cloud Evolving
- ↳ Social Engineering attacks getting smarter
- ↳ Rise of Ransomware and security threats
- ↳ Data Privacy as a discipline
- ↳ Having Responsible Disclosure policy
- ↳ Appreciation | Recognition | Swags | Hall of Fame | BugBounty

SOME TIPS

- ✧ Get Ready to deal with errors
- ✧ Learn how to use google and find resources like pro
- ✧ Stay updated and Make progress
- ✧ Consistency is the key to success
- ✧ Be Active in LinkedIn, Security Forums, and communities
- ✧ Connect with like minded students and Infosec professionals
- ✧ ROOTECSTAK

A large, rounded rectangular graphic with a purple border. Inside, a person stands on a rocky shore with their arms raised in triumph against a cloudy sky.

Set Goal and Stay Focused

– Rakesh Elamaran

REACH OUT

- ✓ www.rakeshelamaran.tech
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