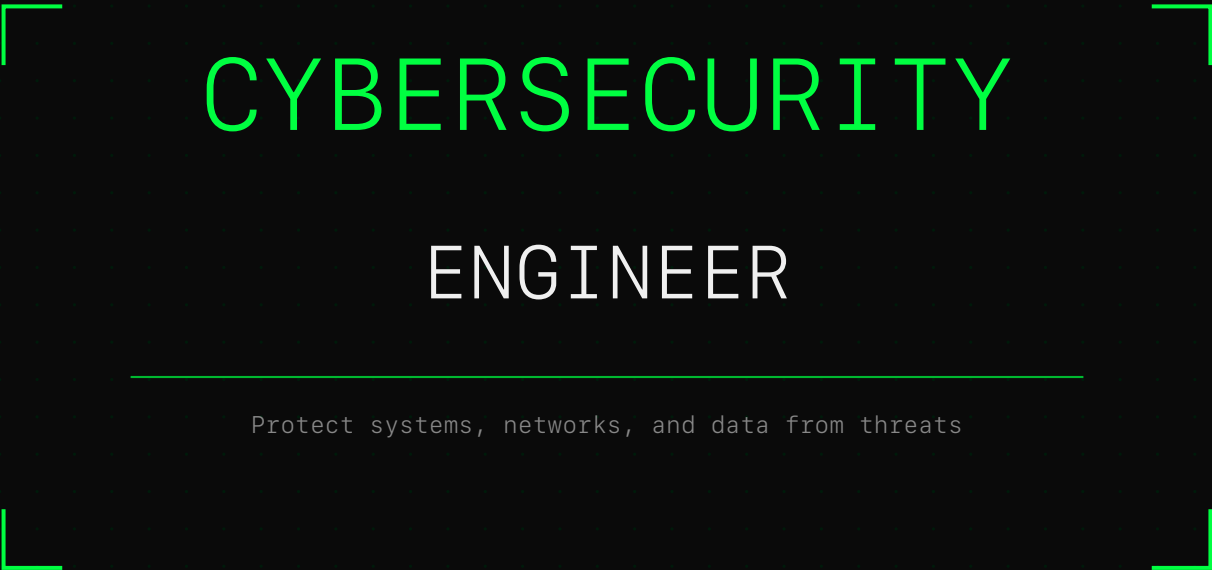




# CYBERSECURITY ENGINEER

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Protect systems, networks, and data from threats

6 stages · progressive skill path

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01

6–8 weeks

## NETWORKING & OS FUNDAMENTALS

TCP/IP &amp; OSI Model

DNS, HTTP, HTTPS, TLS/SSL

Linux CLI (essential)

Windows &amp; Active Directory

Virtualization (VMs, Containers)

Wireshark Packet Analysis

Subnetting &amp; CIDR

You cannot defend what you do not understand – start with networking

02

4–6 weeks

## SECURITY FUNDAMENTALS

CIA Triad (Confidentiality, Integrity, Availability)

Cryptography (symmetric, asymmetric, hashing)

PKI &amp; Certificate Authority

Authentication Mechanisms

NIST Cybersecurity Framework

Threat Modeling (STRIDE)

Security frameworks give you vocabulary to communicate risk clearly

03

8–10 weeks

## OFFENSIVE SECURITY

Kali Linux Tools

Nmap (Reconnaissance)

Metasploit Framework

OWASP Top 10

Burp Suite (Web App Testing)

SQLi / XSS / SSRF

Privilege Escalation

CTF Competitions

You must think like an attacker to defend effectively

04

6–8 weeks

## DEFENSIVE SECURITY

SIEM (Splunk / ELK / Sentinel)

IDS / IPS (Snort, Suricata)

Firewall Rules &amp; WAF Configuration

Log Analysis &amp; UEBA

Incident Response Playbooks

Threat Hunting

Digital Forensics Basics

Detection is harder than prevention – invest heavily in visibility

05

4–6 weeks

## CLOUD & APP SECURITY

Cloud Security Posture (CSPM)

IAM Security Reviews

Container Security (Trivy, Falco)

DAST &amp; SAST Tools (Snyk, SonarQube)

DevSecOps Pipeline Integration

Bug Bounty Methodology

Secure SDLC

Security that slows delivery gets bypassed – shift left instead



06

3–12 months each

## CERTIFICATIONS

CompTIA Security+ (entry level)

CompTIA CySA+ (analyst)

Certified Ethical Hacker (CEH)

OSCP (Offensive Security – most respected)

CISSP (senior/management level)

AWS Security Specialty

SANS / GIAC Certifications

OSCP proves you can actually hack – it is the gold standard for red team

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