

## Cyber Security Course Content

### 1. Networking Basics

- Network devices
  - ✓ Types of networks
  - ✓ Routers
  - ✓ Switches
  - ✓ Hubs
  - ✓ Gateways
- Client and Server
  - ✓ Types of servers
  - ✓ Network communication
- TCP/IP, OSI etc
  - ✓ Data transmission
  - ✓ Ports
  - ✓ Protocols
  - ✓ TCP 3 way handshake
- Network defence systems
  - ✓ Firewalls
  - ✓ IDS/IPS
  - ✓ Proxy
  - ✓ WAF
  - ✓ Antivirus

### 2. Security Basics

- Malwares
  - ✓ Types of malware
  - ✓ Malware detection and mitigation
- Attacks
  - ✓ Network based attacks
  - ✓ Host based attacks
  - ✓ Detection and mitigation
- OWASP Top 10
  - ✓ Web application attacks
  - ✓ Detection and mitigation
- Incident Handling
  - ✓ Log analysis
  - ✓ Incident response
  - ✓ MITRE attack framework

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### 3. Tools

- ✓ SIEM: Splunk/Qradar
- ✓ Endpoint Protection: Carbon Black
- ✓ Vulnerability scanning: Rapid7
- ✓ Email Security: O365 Security

### 4. Threat Intelligence

- ✓ Basics of threat intelligence
- ✓ How to use TI

### 5. Highlights

- ✓ Resume preparation
- ✓ Material
- ✓ Interview questions
- ✓ Mock Interview