

Melkeet Marwaha

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PROFESSIONAL SUMMARY

Highly analytical and certified **Network Intelligence Analyst** with **three years** of enterprise experience at a global content security leader (Friend MTS). Combines daily traffic log analysis, packet inspection (Wireshark), and command-line diagnostics with independent hands-on technical projects. Proven initiative in building out-of-band network lab configurations (Cisco VLANs, SPAN) and deploying AWS serverless cloud microservices. Certified in **CompTIA Network+ and A+** and actively advancing technical capabilities through continuous, independent study towards **CompTIA Security+** and **AWS Certified Solutions Architect - Associate** certifications.

PROFESSIONAL EXPERIENCE

Friend MTS | London, UK (Hybrid)

Network Intelligence Analyst | *September 2025 – Present*

- **Advanced Network & Diagnostic Tooling:** Utilised Wireshark, browser developer utilities, curl, dig, and nslookup to run deep diagnostics on ports, domains, remote software activities, and transport layer anomalies.
- **Traffic & Log Analysis:** Reviewed enterprise-level network logs and IP data arrays to track anomalies, discover infrastructure vulnerabilities, and evaluate transport layer delivery patterns.
- **Infrastructure Mapping:** Utilised OSINT methodologies and DNS/Whois lookup tools to map out rogue IPTV infrastructure, server hosting networks, and reverse-proxy setups.
- **Cross-Department Collaboration:** Shadowed internal Network Engineering during an isolated lab buildout to gain practical exposure to physical Cisco switch console configurations, VLAN isolation, and SPAN port setups.
- **Stakeholder Reporting:** Created and delivered high-priority, data-driven intelligence reports for top-tier corporate clients (including Premier League, UEFA, Sky Sports, and BT Sport) to facilitate immediate mitigation actions.

Anti-Piracy Operations Analyst | *September 2023 – September 2025*

- **Protocol & Network Analysis:** Utilised Wireshark and network monitoring tools to analyse packet captures (PCAPs) and transport protocols (HLS, DASH, RTMP), successfully isolating malicious source IPs and illicit redistribution servers.
- **Cloud & Log Inspection:** Monitored enterprise dashboard alerts and analysed network traffic logs to detect anomalies in digital fingerprinting and watermarking data, ensuring rapid identification of data leaks.

- **CDN & Edge Analysis:** Identified and tracked unauthorised content distribution across global Content Delivery Networks (CDNs) and edge servers, documenting distribution patterns for legal and engineering teams.
 - **Incident Containment:** Executed real-time incident response protocols during high-traffic global streaming events, coordinating network-level blocks and content takedowns within strict SLA windows.
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TECHNICAL PROJECTS

AWS Serverless Portfolio & Live Visitor Counter | *Independent Cloud Project*

- Designed and deployed an end-to-end serverless web application in the eu-west-2 (London) region within AWS Free Tier limits. Hosted static assets on **AWS S3** distributed globally via **CloudFront CDN (HTTPS/TLS)**. Built an event-driven **Python 3.12 AWS Lambda** backend integrated with **API Gateway** and **DynamoDB**, utilising atomic updates (ADD) and attribute aliasing (#v). Source code version-controlled via **Git/GitHub**

Isolated Cisco SPAN & VLAN Lab | *Practical Guided Lab Project*

- Completed a guided technical walkthrough with Senior Engineering covering **Cisco switch topology** and **serial console CLI management** (macOS screen/TTY). Reviewed **802.1Q VLAN** segmentation for isolating investigation traffic, 5G cellular egress routing, and **Switched Port Analyzer (SPAN)** configuration for mirroring live packet streams into **Wireshark**.
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CERTIFICATIONS & EDUCATION

- **CompTIA Network+**
 - **CompTIA A+**
 - **CompTIA IT Operations Specialist (CIOS)** (*Stackable Credential*)
 - Actively working through **CompTIA Security+** and **AWS Certified Solutions Architect - Associate** Certifications
 - **Level 3 Extended Diploma in IT** | South and City College
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TECHNICAL SKILLS & COMPETENCIES

- **Networking & Protocols:** TCP/IP, DNS, DHCP, VLAN Concepts, SPAN / Port Mirroring, Wireshark, PCAP Analysis, VPNs, WAN/LAN
- **Cloud & Automation:** AWS Serverless Architecture (S3, CloudFront, API Gateway, Lambda, DynamoDB), Python 3.12, JSON, REST APIs, Git / GitHub
- **Security & Tools:** OSINT, Infrastructure Mapping, Traffic Anomaly Detection, Command Line Interfaces (curl, dig, nslookup, tcpdump)