- M U H A M M A D   R A F A Y   A L I -

CYBER SECURITY ENGINEER

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Cyber Security Engineer with over **1 year of hands-on experience in SOC operations, SIEM engineering, threat detection, and incident response.** Experienced in optimizing detection infrastructure, reducing false positives, and building scalable, **compliance-aligned detection frameworks**. Skilled in integrating and tuning SIEM tools such as **Threat Hawk** and **Wazuh,** with expertise in crafting custom detection rules mapped to **MITRE ATT&CK techniques** and regulatory standards including, **ISO 27001, NCA-ECC,** and **SAMA.**

PROFESSIONAL EXPERIENCE

CYBER SECURITY ANALYST

Cyber Silo | Islamabad | Remote   FEB 2025 – JULY 2025

- Designed and implemented **custom SIEM detection rules and parsers**, increasing detection fidelity by **40%** across critical systems.
- Automated compliance mapping in SIEM by correlating **ISO 27001, NCA-ECC,** and **SAMA** controls with **global standards** using **Excel-based matrices** and **scripting**, improving rule tagging consistency and reducing manual alignment efforts by 60%.
- Integrated **MITRE ATT&CK techniques via Atomic Red Team**, simulating real-world threats to validate detection accuracy and coverage.
- Debugged and resolved SIEM data flow issues by correcting **agent misconfigurations and log parsing errors**, improving log integrity by **99%**.
- Developed **YAML-based** CIS hardening templates and **audit automation scripts** for FortiGate, Cisco, and pfSense firewalls, simulating secure baseline enforcement using **CIS Benchmarks** and .conf execution files.

SOC ANALYST - Allama Iqbal Open University

Cyber Silo | Islamabad | Hybrid   FEB 2024 – FEB 2025

- Spearheaded SIEM deployment and integration across 30+ servers, network devices, and endpoints, enhancing visibility and reducing detection blind spots by 35%.
- Identified exposed assets via **OSINT tools** such as **Google Dorking** and **WHOIS-based reconnaissance**.
- Reduced **false positives by 45%** through rule optimization and logic alignment with threat intel sources and attacker TTPs.
- Designed and implemented **incident response playbooks** for containment, remediation, and escalation, cutting average response time from **30+ minutes to under 10.**
- Troubleshot and remediate **SIEM integration errors**, ensuring 24/7 uptime and uninterrupted log ingestion for **critical assets**.

EDUCATION

Hamdard University – Islamabad

BS Computer Science (2023)   **CGPA: 3.01**

SKILLS

- **SIEM & Threat Detection:** Threat Hawk, Wazuh, Rule Parsing, Alert Tuning
- **Offensive Security & VAPT:** Kali Linux, Burp Suite, Nmap, Metasploit, OSINT, MITRE Att&ck
- **SOC Operations:** Incident Response, Threat Hunting, CTI, IOC Analysis
- **Automation & Scripting:** Python, Bash, PowerShell, SIEM Integration Scripts
- **Security Frameworks:** ISO 27001, NCA-ECC, SAMA, ADHICS
- **Tools & Platforms:** VMware, Azure, Ubuntu Server, Remote Desktop

CERTIFICATIONS

- **SIEM XPERT**

  Certified SOC Analyst Foundation

- **Google**

  Cybersecurity Specialization

- **UDEMY**

  Ethical Hacking & Penetration Testing

- **SKILLFRONT**

  ISO/IEC 27001:2022

- **IBM**

  Security Analyst Fundamentals

- **UDEMY**

  Kali Linux OS Mastery

TECHNICAL PROJECTS

Active Directory Attack Simulation & Endpoint Hardening (Lab Project)

Cyber Silo | github.com/0xRafuSec/Active-Directory-Attack-Simulation-and-Hardening-Lab

- Emulated post-exploitation techniques in a **Windows AD lab** using **Atomic Red Team, PowerShell, Python,** and **Mimikatz,** simulating credential theft and lateral movement across three domain-connected hosts for red team validation.
- Analyzed **telemetry** from **Event Viewer** and **Sysmon**, integrating **Wazuh SIEM** to alert on **20+ MITRE-mapped TTPs**, improving detection fidelity and expanding endpoint visibility across 5 lab systems.
- Performed **CIS-based Security Configuration Assessments (SCA)** on **Windows/Linux endpoints**, identifying and **remediating 50+ misconfigurations**. Verified hardening effectiveness via **Wazuh dashboards**, resulting in an **80%** increase in **benchmark compliance** and improved endpoint resilience.

Multi-Sensor Automation & Intrusion Detection IoT (Final-Year Project)

Hamdard University | github.com/0xRafuSec/Multi-Sensor-Intrusion-Detection-IOT

- Developed an IoT-based home/office security solution using **ESP32, motion/gas/fire sensors**, and **ESP32-CAM** for live threat detection and monitoring.
- Engineered a mobile application using **Flutter and Firebase** to deliver real-time **alert notifications** for **fire, gas leaks,** and **intrusions,** improving user **response time** by 60%.
- Produced for **low-cost deployment**, achieving **real-time alerting** with high scalability for smart environments.