MOHAMMED AHRAS KHAN KP

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Profile

Detail-oriented cybersecurity professional with strong academic and hands-on experience in cyber defense, SOC operations, and ethical hacking. Trained in SIEM monitoring, EDR-based threat detection, incident analysis, and log investigation as part of the Advanced Diploma in Cyber Defense (ADCD). Possess solid knowledge aligned with CEH methodologies, including attack vectors, threat analysis, and defensive security controls. Proficient in Python scripting, network security, and encryption techniques, with a strong passion for safeguarding digital assets and strengthening organizational security posture.

Education

Advanced Diploma in Cyber Defense (ADCD),
Red Team Hacker Academy — 2025 – Ongoing

Certified Ethical Hacker (CEH),
EC-Council — In Progress

M.Sc. in Computer Science (CGPA: 8.43),
SRM Institute of Science and Technology — 2023 – 2025

B.Sc. in Computer Science,
MTM College of Arts, Science & Commerce — 2021 – 2023

Technical Skills

Programming	Python, Java, PHP, Bash (basic), SQL (basic)
Cybersecurity	SOC operations, SIEM (Splunk), EDR concepts, incident response, threat analysis, log analysis and alert triage, MITRE ATT&CK, Cyber Kill Chain, ethical hacking fundamentals, phishing simulation (labs), network security, HTTP/HTTPS protocol analysis, Kali Linux, Linux command-line, Apache server setup, Python scripting for security, web security basics, cryptography fundamentals, vulnerability assessment basics.
Tools	Splunk, SIEM platforms, EDR platforms, Kali Linux, Nmap, Burp Suite, Metasploit Framework, Wireshark, Hydra, John the Ripper, Aircrack-ng, OWASP ZAP, Nikto, SEToolkit, Netcat, tcpdump, Dirb, Gobuster, Apache Web Server, Cloudflared, Bash, Linux CLI.
Frameworks & Models	Flask (basic), Django (basic), MITRE ATT&CK, Cyber Kill Chain, Incident Response Lifecycle, SOC Operations (Tier 1/2), OWASP Top 10, OSI and TCP/IP models, Defense in Depth, Zero Trust (basic), CIA Triad, risk management process, access control (RBAC), client–server architecture, REST API concepts, Secure SDLC.
IoT	Arduino UNO, ESP8266, MQ2 Sensor, sensor interfacing basics, IoT communication fundamentals.
Other	Technical documentation, incident reporting, technical writing, presentation design, data visualization (basic), analytical thinking, problem-solving, research skills.

Projects

SecureText – Text Encryption Application	Developed a secure text communication application using Python and cryptographic algorithms to protect sensitive information. Implemented encryption and decryption workflows, key handling logic, and basic input validation to ensure secure and reliable data exchange.
Human Pose Estimation Using Machine Learning	Built a real-time human pose estimation system using computer vision and machine learning techniques. Utilized TensorFlow and PyTorch for model integration and inference, and processed video frames to detect and visualize human body keypoints in real time.
IoT-Based Gas Leakage Detection & Alert System	Designed and implemented an IoT-based gas leakage detection system using sensors and microcontrollers. Monitored gas concentration levels in real time and triggered alerts when values exceeded predefined safety thresholds, demonstrating embedded systems and IoT fundamentals.

Internships & Training

Cybersecurity & Ethical Hacking Intern	*Innovate Intern (Remote)*	May – Sep 2025
	Completed a 20-week internship focused on ethical hacking, network defense, and cryptography. Gained hands-on exposure to secure communication techniques, encryption concepts, and cybersecurity fundamentals through guided labs and projects.	
Python & Django Developer	*Zion IT Company*	Sep – Oct 2022
	Worked on backend development using Django. Implemented basic backend functionalities, handled data flow, and supported web application development tasks.	
Zero Trust Cloud Security Virtual Intern	*Zscaler*	Jan – Mar 2024
	Studied Zero Trust Architecture and cloud security principles. Gained conceptual understanding of identity-based access, secure connectivity, and modern cloud security models.	
Cybersecurity Job Simulation	*Mastercard (Forage)*	Jun 2025
	Completed hands-on cybersecurity simulations involving phishing detection, SOC alert monitoring, and basic incident response workflows.	

Certifications & Badges

- Certified Ethical Hacker (CEH) – EC-Council *(In Progress)*
- Advanced Diploma in Cyber Defense – Red Team Hacker Academy
- Zscaler Zero Trust Cloud Security Certification (2024)
- Mastercard Cybersecurity Job Simulation – Forage (2025)
- TryHackMe – Pre-Security Learning Path (2025)
- TryHackMe – 30 Days Streak Badge
- TryHackMe – 90 Days streak Badge

Achievements & Volunteering

- Recognized for best multimedia presentation at the IT Fair (Tanur Subdistrict).
- Active participant in Junior Red Cross (JRC), Scout & Guide, and National Service Scheme (NSS).

Languages

Malayalam (Native) — English (Fluent) — Tamil (Intermediate)