

# Arsalan khan

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## SUMMARY

Final-year Cybersecurity student with hands-on experience in SOC operations, penetration testing, and threat intelligence. Proven track record in vulnerability assessment and network defense through industry internships and academic research. Passionate about solving complex security challenges and contributing to high-performance security teams.

## EXPERIENCE

- Pakistan Air Force** July 2025 – August 2025  
*Cyber Security Intern* Islamabad, Pakistan
  - Assisted in SOC operations and network security configurations, including vulnerability assessments and penetration testing on lab environments.
  - Performed end-to-end security testing using Burp Suite and labs to identify and mitigate web-based vulnerabilities.
- ITSOLERA PVT LTD** July 2024 - September 2024  
*Red Team Intern* Remote
  - Conducted penetration testing and threat analysis to identify weaknesses and improve overall security posture.
  - Developed "ConnectFinder," a Python-based OSINT tool designed to aggregate data from multiple sources for identity verification and threat research.

## EDUCATION

- Ghulam Ishaq Khan Institute of Engineering Sciences and Technology (GIKI)** September 2022 - Present  
*Bachelors of Science in Cyber Security* Topi, Pakistan
  - CGPA:** 3.43/4.00
  - Final Year Project:** TrustChain: A Blockchain-based Secure Voting System

## PROJECTS

- Malware Traffic Detection Using Victim-Attacker Interaction Patterns** Dec 2025  
*Tools: Python, PyTorch, Scapy, LightGBM, Google Colab* ∞
  - Developed an ML-based detection system to classify encrypted malware families using statistical traffic feature engineering.
- End-to-End Vulnerability Assessment System** Nov 2025  
*Tools: pfSense, Wazuh SIEM, Kali Linux, Python, Suricata, Metasploit, Windows Server* 🔒
  - Designed a segmented corporate network environment to simulate attacks, monitor threats via SIEM, and automate vulnerability scoring.
- Secure Ride-Hailing Web Application** Apr 2025  
*Tools: Python, Flask, MySQL, HTML/CSS/JS, Mapbox API, JWT, bcrypt* 🔒
  - Built a full-stack web platform implementing secure authentication, session handling, and OWASP-aligned defense mechanisms.

## AWARDS

- Dean's Honor Roll Award** — Achieved distinction GPA for five consecutive semesters with GPAs: 3.71, 3.65, 3.54, 3.52, and 3.54.

## LEADERSHIP EXPERIENCE

- Member & Hackathon Head – ACM GIKI Chapter** Sep 2023 – Present  
*Ghulam Ishaq Khan Institute (GIKI)*
  - Orchestrated technical competitions and hackathons for 250+ participants, managing the full event lifecycle from logistics to execution.
- Head Member – SOPHEP** Feb 2023 – Present  
*Ghulam Ishaq Khan Institute (GIKI)*
  - Led the organization of flagship institutional events and career fairs, coordinating with 50+ industry leaders to facilitate recruitment.

## SKILLS

- Cybersecurity:** Penetration Testing, SOC Monitoring, Digital Forensics, Vulnerability Assessment, Incident Response, Network Security, OWASP Top 10, Wireshark, Nmap
- Machine Learning:** Anomaly Detection, K-Means, Random Forest, MLP/DNN, Model Evaluation, Scikit-Learn
- Programming:** Python, C++, SQL, Bash, Flask, HTML/CSS/JavaScript, REST APIs
- Cloud & DevOps:** AWS, Terraform, Docker, GitHub Actions (CI/CD), Prometheus, Grafana

## ADDITIONAL INFORMATION

**Languages:** English (Fluent), Urdu (Fluent), Pashto (Native)

**Interests:** SOC Operations, Red Teaming, Football, Music, Traveling