# Rakshan K

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## Education

**Amrita Vishwa Vidyapeetham (2021-2025)**                **Coimbatore, Tamil Nadu, India**
*Bachelor of Technology in Computer Science and Engineering (Cybersecurity)*

## Projects

**Splunk SOAR-SIEM Based HomeLab | Splunk, SOAR, Python, Sysmon**  GitHub                **2025**
- Set up a personal SOC lab using Splunk SIEM and SOAR for threat detection and response.
- Built SOAR playbooks for phishing alerts, IOC lookups, and automated triage.
- Wrote SPL rules to detect brute-force, persistence, and lateral movement.

**WIFI Offensive and Defensive Security Suite | Python, Scapy, Raspberry Pi**  GitHub                **2025**
- Developed an automated attack framework to identify and exploit weak Wi-Fi networks.
- Implemented various offensive techniques like spoofing, deauth, handshake attacks etc.
- Designed a real-time defensive dashboard to detect and block ongoing threats.
- Created signature-based intrusion detection using packet analysis.

**Apple Leaf Disease Detection Using ML | TensorFlow, OpenCV, Python**  GitHub                **2023**
- Built a deep learning model for early disease detection using image processing.
- Achieved 96% accuracy on real-world datasets from Kaggle and Google.
- Enhanced model generalization across varying environmental conditions.

## Certifications and Licenses  GitHub

- CompTIA Security+ *–CompTIA*
- Red Hat Certified System Administrator (RHCSA) *–RedHat*
- Introduction to Splunk,SOAR,Fields *–Splunk*
- Certified in Cyber Security (CC) *–ISC2*
- Certified Red Team Analyst (CRTA) *–Cyberwarfare*
- Certified Cyber Security Analyst (C3SA) *–Cyberwarfare*
- Vulnerability Assesment and Penetration Testing Training (VAPT) *–PurpleSynapz*
- Github Foundations *–Github*
- Fortinet FCP 7.4 Administrator *–Fortinet*
- Scrum Foundation Professional Certification (SFPC) *–Certiprof*
- AWS Academy Cloud Security Foundations *–AWS Academy*

## Honor Awards

Cyber Knight CTF Competition – 2nd Runner-Up – *Cyber Cell and Galgotias University, Uttar Pradesh*

- Excelled in cybersecurity challenges, including cryptography, reverse engineering, OSINT etc.
- Recognized with a cash prize of INR 7000, THM vouchers, and certification for outstanding performance.

## Club Activities

**Open Source Intelligence (OSINT) - Lead**  *at Blockchain Research Interest Group*                **2022 - 2024**

Conducted weekly OSINT training sessions and focusing on blockchain security, forensic investigation, and smart contract security. Explored blockchain-related topics, including NFTs, the metaverse, VAPT, and forensic techniques for tracking illicit activities.

## Tech Stack

**Cybersecurity:** Splunk (SIEM, SOAR),Burp Suite, Wireshark, Nmap, Autopsy, FTK Imager, Fortinet Firewall.
**Development & Scripting:** C++, Python, C, Bash/Shell, Git/GitHub, Android Studio, Scapy, VIM, Agile.
**Infrastructure & Cloud:** MySQL, VMware, Cisco Packet Tracer, AWS (EC2, S3, IAM), Linux, Docker, Kubernetes.