MOHAMMED ASSAD

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Summary

Cybersecurity practitioner and CTF developer specializing in web exploitation, cryptography, steganography, OSINT, and reverse engineering. Experienced in building secure labs, automating analysis workflows, and delivering hands-on cybersecurity training. Creator of **CRIPSTEGZ** — a globally published PyPI tool integrating image steganography and crypto decoding.

Technical Skills

Security Domains: Web security, penetration testing, cryptography, steganography, OSINT, reverse engineering.
Tools: Burp Suite, Wireshark, Nmap, Metasploit, Apktool, Ghidra, Netcat, Hashcat, Kali Linux.
Core Competencies: Vulnerability research, exploit development, malware analysis, secure coding, incident response.

Soft Skills

Languages Known: English, Hindi, Kannada, Urdu
Other Soft Skills: Leadership, Public Speaking, Team Management, Problem Solving

Experience

Operations Head — Team Triada (Cybersecurity & CTF Club) 2024–Present
Yenepoya University, Bengaluru

- Led cybersecurity club operations: CTF planning, event execution, recruitment, and member training.
- Conducted **15–20 hands-on cybersecurity sessions** on CTF basics, steg, crypto, OSINT, and exploitation.
- Built practical labs for steganography, Android reverse engineering, and exploit development.

CTF Lead & Security Researcher — University Team 2023–Present

- Designed over **40 multi-stage CTF challenges** (crypto, steg, OSINT, Android RE).
- Maintained an **80%+ solve rate** while participating in national and global CTF competitions.
- Reverse-engineered OWASP Uncrackable Apps (Lv 1–3) using Apktool + smali patching.

Technical Projects

CRIPSTEGZ — Steganography + Crypto Tool (PyPI)

- Developed a CLI tool combining LSB image steganography with AES-256 encryption.
- Added multi-format crypto decoders: Base64, Hex, ROT13/N, XOR, Binary, URL, Baconian.
- Published globally as: `pip install cripstegz`.

Multi-Stage CTF Challenge Pack

- Designed EXIF steg, audio LSB, and OSINT-based puzzles for training and competitions.
- Used automated SHA-256 verification for scalable challenge distribution.

Triada labs — CTF Platform

- Co-developed a dedicated CTF platform with the team for hosting CTF challenges

Wi-Fi Deauthentication IoT Device

- Created an ESP8266-powered IoT device capable of controlled Wi-Fi deauthentication tests for authorized security auditing.
- Implemented packet injection, AP/client scanning, and automated disconnect .

Education

Bachelor of Computer Applications (BCA) — Cybersecurity, Ethical Hacking & Digital Forensics 2023–Present
Yenepoya University, Bengaluru

12th Grade — Aurobindo PU College 2023

10th Grade — Narayana E-Techno School 2020

Achievements

- Regularly ranked in the **top 5%** in national and global CTF competitions.
- Designed 40+ CTF challenges with measurable engagement and strong feedback.
- Built a custom ESP8266-based Wi-Fi deauthentication device for authorized network security testing.
- Published **CRIPSTEGZ**, a global PyPI tool combining image steganography and multi-format crypto decoding.

Portfolio: assad.triada.in