

# RAHUL KUMAR YADAV

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[LinkedIn](#) • [Portfolio](#) • [GitHub](#)

## EDUCATION

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**Integrated M.Tech in Computer Science (Specialization in Cybersecurity)**

VIT Bhopal University

Sept 2022 – Ongoing

*Cumulative GPA: 8.78*

## SKILLS

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<b>Security</b>	Web & API Security (VAPT), Cloud Security (AWS/GCP), Cryptographic Implementations, Secure SDLC, Incident Response, Network Defense Fundamentals
<b>Programming</b>	Python & C++, SQL, Linux Bash Scripting, Node.js & React
<b>Tools</b>	Burp Suite, Wireshark, OWASP ZAP, Nmap, Git/GitHub, Appwrite, Linux Environments (Kali/Parrot), Windows Defender Firewall

## EXPERIENCE

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**Cyber Security Consultant Intern**

OKOMO360 PRIVATE LIMITED

Oct 2025 – Dec 2025

*On-site – Gurugram, India*

- Secured a VR ecosystem through comprehensive VAPT and security hardening, mitigating 5+ critical vulnerabilities across web portals and APIs.
- Formulated a GCP security baseline and authored incident response runbooks, fortifying infrastructure and reducing response times by 15%.
- Orchestrated a secure Software Development Lifecycle incorporating OWASP Dependency-Check to remediate 3 vulnerabilities before deployment.

**Cyber Security Intern**

THE RED USERS

Feb 2025 – Mar 2025

*Remote*

- Conducted comprehensive security audits on 5+ network nodes, uncovering critical vulnerabilities and hardening firewall configurations for a 40% reduction in intrusion attempts.
- Executed VAPT on web applications to remediate OWASP Top 10 flaws and structured a defensive security framework to simulate and mitigate real-world attack scenarios.

## PROJECTS

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**Virtual Hardware Security Module (HSM) Simulation**

[GitHub](#)

- a Python-based Virtual HSM architecture ensuring 100% of cryptographic keys remain isolated within the secure boundary.
- Programmed a cryptographic service utilizing AES-256-GCM and RSA-2048 PSS with a custom Policy Engine and SHA-256 authentication.
- Created an interactive Tkinter GUI dashboard to streamline 4 core cryptographic workflows and provide real-time audit trails.

**Secure Vault – Software-Based Trusted Storage Architecture**

[GitHub](#)

- Engineered a hardware-inspired secure storage system implementing AES-256 encryption, SHA-256 authentication, and software-based Root of Trust mechanisms.
- Developed an encrypted vault architecture for secure storage and retrieval of cryptographic keys, API tokens, and firmware data using Python and the cryptography library.
- Implemented firmware integrity verification and secure key management workflows simulating TPM/HSM-inspired trust architecture for embedded and cloud-edge environments.

## EXTRA-CURRICULAR ACTIVITIES

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- **Member, Photography Team, Gujarati Club.** Captured and edited 500+ photos/videos used across the organization's marketing channels.

## LEADERSHIP

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- Co-Lead, Ethical Hacking Department, Cyber Warrior Club (VIT Bhopal University)- Spearheaded the development of Capture The Flag (CTF) challenges, engaging over 50 participants.
- Vice President, Eureka Club (VIT Bhopal University) – organized technical workshops, mentored students, and led innovation-focused projects.