






# Abhinav Krishna Kunchala

Ethical Hacking | Penetration Testing | Threat Analysis | CTF Enthusiast

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## SUMMARY

Aspiring Cybersecurity Professional with hands-on experience in penetration testing, vulnerability assessment, secure coding, and threat analysis. Skilled in tools like Nmap, Wireshark, Metasploit, and Burp Suite, and experienced with CTFs, ethical hacking, and Python scripting. Passionate about contributing to secure, scalable, and innovative solutions in cybersecurity.

## SKILLS

- **Technical Skills:** Python, Java, C, HTML, CSS, JavaScript, DBMS, React Native
- **Security Tools:** Nmap, Burp Suite, Wireshark, Metasploit, VMware, Steghide
- **Platforms/DevOps:** Git, GitHub, Google Cloud, Visual Studio Code, Supabase
- **Soft Skills:** Problem Solving, Teamwork, Communication, Critical Thinking

## WORK EXPERIENCE

### Supraja Technologies – Cybersecurity Intern 05/2025

- Participating in hands-on cybersecurity training sessions and lab simulations.
- Gaining experience in vulnerability scanning, network analysis, and secure coding practices.
- Working with tools like Nmap, Wireshark, and custom scripts to understand attack vectors and defenses.

### Hack Secure – HACK SEC Cybersecurity Intern 04/2025

- Performed web app penetration testing: port scanning, directory brute-forcing, SQLi, and XSS.
- Completed advanced CTFs focusing on initial access, privilege escalation, and post-exploitation.
- Built "Cypherus," a custom Python encryption tool, enhancing secure data handling.
- Gained hands-on experience with Nmap, Metasploit and ethical hacking tools.

### Jupiter Meta – Research analyst intern 12/2024

- Performed data collection and analysis to support strategic decisions.
- Collaborated with teams to generate actionable insights aligning with business goals.
- Improved analytical skills by interpreting complex cybersecurity trends and data.

## EDUCATION

### Bachelor of Technology (B.Tech) – Computer Science and Engineering (Cybersecurity)

Guru Nanak Institutions Technical Campus | 2021 – 2025

### Higher secondary education – MPC

Sri Gayatri Junior College | 2019 – 2021

### Secondary education

Little Flower High School | 2016 – 2019

## PROJECTS

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### **Cipherus** – Secure File Encryption Tool

- Python-based tool using Fernet encryption, XOR obfuscation, and key signature validation.
- Prevents double encryption and maintains integrity with checksum markers.

### **AI Assistant** – Fully Offline AI Assistant

- Voice assistant using OpenHermes, Whisper, and local processing via Ollama.
- Implemented context-aware commands, secure execution, and privacy-preserving architecture.

## ACHIEVEMENTS & EXTRACURRICULARS

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- **Student Placement Coordinator** – Coordinated drives for 1000+ students and improved placement communication.
- **Hacktopia Event organization** – Spearheaded a national cybersecurity event with strategic outreach and engagement.
- **GDSC-GNI Social Media Core** – Managed digital outreach for various workshops and events like "Decrypting Problems using Python."

## CERTIFICATIONS

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- Ethical Hacking with Kali Linux, Udemy – 2024
- Foundations of Cybersecurity, Coursera
- Introduction to Cybersecurity, Cisco
- Cybersecurity Job Simulation, AIG Shields Up (Forage)
- Certified Security Expert Level-1, Supraja Technologies
- Cybersecurity Virtual Internship, Palo Alto Networks
- Salesforce Developer Virtual Internship