

Abhijeet Kumar

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Summary

Cybersecurity engineer with expertise in penetration testing, SOC automation, and digital forensics. Demonstrated ability to analyze threat trends and support security research through vulnerability assessments and incident response. Skilled in developing AI-powered security tooling and technical content for enhanced defenses. Currently pursuing a Master of Engineering in Cybersecurity, offering practical experience in forensic analysis and red team operations.

Education

University of Maryland, College Park | *Master of Engineering, Cybersecurity*

Jan 2025 - Dec 2026

Work Experience

Hawk Eye Forensic

Jan 2024 - Nov 2024

Junior Cyber Forensic Analyst

Noida, India

- Implemented robust methodologies to investigate cybercrimes on digital devices (computers, smartphones) while preserving legal evidence and supporting vulnerability analysis.
- Analyzed 30+ digital devices (PCs, smartphones) for law enforcement cases using Magnet AXIOM and Cellebrite, enhancing artifact recovery efficiency by 25%, collaborating with incident response teams to assess threat trends and potential security defects.
- Strengthened expertise in digital forensics and legal protocol adherence, continuously updating knowledge on evolving cyber threats and integrating threat intelligence in investigations.

NOKIA

Feb 2023 - Aug 2023

Technical Content Developer Intern

Bangalore, India

- Crafted comprehensive, user-friendly documentation for 100+ employees and secure network solutions, incorporating security research insights and guidance on signature detection.
- Developed detailed technical content on cybersecurity practices, revamped SharePoint portals (MN TCB & MN CuDo), and integrated network security guidelines into product documentation to support remediation strategies.
- Boosted customer satisfaction by 20%, increased user engagement by 15%, reduced Chatbot query response times by 30%, and contributed to strengthening Nokia's overall security posture through refined technical communication.

Projects

LLM Recon & Social-Engineering Simulator

Present

- Building a Python tool that uses LLMs to turn light OSINT into a simulation-only spear-phishing email and static demo landing page for authorized red-team training (Python, OpenAI API, BeautifulSoup, Jinja2).

AI/ML-Based Fraud Detection System

- Developed an AI/ML-based fraud detection system leveraging SSL checks, OCR, NLP, & threat intelligence to identify malicious sites and Android apps. Improved detection accuracy and reduced false positives, enabling faster enforcement prioritization.

Secure File Storage Using Hybrid Cryptography

- Built a secure file storage system using hybrid cryptography (AES-GCM, ChaCha20Poly1305, Fernet, MultiFernet), integrated with AWS S3 and AWS KMS for encrypted cloud handling and centralized key management.
- Designed a Streamlit-based Python UI with SSL/TLS, password hashing, 2FA, and threading to ensure secure access control, scalability, performance, and breach resistance.

Technical Skills

- Languages:** Python, C/C++, HTML/CSS, Bash, SQL
- Security Tools:** Splunk, Wazuh, TheHive, Nessus, Wireshark, OSINT, Mimikatz, BurpSuite, Metasploit, SharpHound/BloodHound
- Forensics:** Magnet AXIOM, Cellebrite UFED, FTK Imager, OSForensics, Tableau TX1
- Cloud & DevOps:** AWS (EC2, S3, KMS), DigitalOcean, Git, VirtualBox, VMware
- Frameworks & Standards:** MITRE ATT&CK, NIST 800-53/61, OWASP Top 10, HIPAA-aligned practices
- Security Research & Analysis:** Security Research, Reverse Engineering, Signature Detection, Threat Intelligence, Malware Analysis, Vulnerability Analysis

Certifications

- CompTIA Sec+:** SY0-701
- CHFI:** EC-Council
- PT1:** THM
- CEH:** EC-Council
- eJPT:** INE
- OSCP:** In Progress

Competitions & Recognitions

- DEF CON 33 Noob Village CTF – Rank 9
- picoCTF (2025) – Rank 435
- CENTURITON Hackathon - 1st Place
- The Diana Initiative CTF (2025) – Rank 1
- TryHackMe CTF (2025) – Rank 143
- Smart India Hackathon Finalist