ARINDAM SINGH

+91-7838675624 | arindamsingh75@gmail.com | LinkedIn | Github

PROFILE SUMMARY

A cybersecurity student with practical exposure to network security, penetration testing, ethical hacking, and cryptography. Proficient in using Kali Linux, Metasploit, Recon-ng, Maltego CaseFile, Burp Suite, and other automated security tools for reconnaissance and exploitation, along with strong problem-solving aptitude. Enthusiastic about vulnerability research, secure coding, and security automation. Certified in the Google Cybersecurity Professional Certificate, with practical experience in Web Security, Threat Intelligence, and Incident Response.

EDUCATION

Bennett University **Aug 2023 - May 2027 (Expected)**

- Bachelor of Technology in Computer Science & Engineering – Specialization in Cyber Security

Amity International School **2023**

EXPERIENCE & POSITION OF RESPONSIBILITY

Cybersecurity Analyst Intern | Centre for Railway Information Systems (CRIS)
New Delhi, India **Jun 2025 - Aug 2025**

- Performed manual vulnerability testing on the e-DRISṬi application, identifying potential security risks.
- Conducted API testing on the IRCTC Android application, focusing on detecting session duplication issues.

Senior Research Analyst | Alan Turing Club | Bennett University **Sep 2024 - Jun 2025**

- Led a **5** member team to organize DSA workshops and technical events for freshers and peers.
- Boosted student engagement by **40%** through hands-on sessions in data structures and algorithms.

PROJECTS

MALSIS-CVE (Automated Malware Behavior Analysis Tool) **Jan 2025 - May 2025**

Python, Cuckoo Sandbox, MITRE ATT&CK, CVE DB, HTML.

- It is an end-to-end malware analysis pipeline that integrates Cuckoo Sandbox, MITRE ATT&CK, and the NVD CVE database, reducing manual correlation time by **80%**.
- Developed automation to extract malware indicators of compromise (IOCs) and mapped over **200+** indicators to ATT&CK techniques using string matching (SequenceMatcher) and TF-IDF vectorization.
- Implemented CVSS scoring logic to estimate severity, prioritizing top 10 CVEs per sample using cosine similarity on threat vectors and generating a dynamic HTML report mapping indicators to tactics and vulnerabilities, enhancing readability and threat context for analysts.

Web-Vulnerability-Scanner (75% Accuracy) **Sep 2024 - Dec 2024**

Bash scripting, Nikto, Tshark, Gobuster, Hydra, SQLMap, Python3, Requests, Linux utilities.

- Automated web vulnerability scanning pipeline using Nikto, Gobuster, Hydra, and SQLMap, achieving **75%** detection accuracy across **5** attack vectors.
- Reduced security response time by **30%** by capturing and analyzing network traffic with Tshark, identifying anomalies in real-time.
- Enhanced database security by **40%** through successful identification and exploitation of SQL injection vulnerabilities during testing.

StealthCrypt **Jun 2024 - Aug 2024**

Java, Swing, AWT, HashMap, Scanner, Morse Code, Chappe Code, Caesar Cipher.

- Built a GUI-based encryption tool using Java Swing & AWT, enabling users to encode/decode using Morse, Chappe, and Caesar ciphers, and improved encryption processing speed by **40%**.
- Utilized HashMap and Scanner to streamline cipher logic and text processing, enhancing performance and reducing processing time by **25%**.
- Designed an intuitive user interface with real-time feedback, increasing user engagement and interaction rates by **35%**.

SKILLS

Cybersecurity & Ethical Hacking:

- Penetration Testing (Web, Network, Application), Vulnerability Assessment & Exploitation, SQL Injection, XSS, CSRF, Network Traffic Analysis (Wireshark, tshark)

Programming & Scripting:

- Python (Security Automation), Bash Scripting & Linux Utilities, C++, Java, SQL

Tools & Frameworks:

- Kali Linux, Metasploit, Burp Suite, Nmap, Recon-ng, Maltego, Hydra, Nikto, Gobuster, SQLMap, John the Ripper, Hashcat, LOIC

CERTIFICATIONS

- Google Cybersecurity Professional Certificate
- IBM Introduction to Cybersecurity Tools & Cyberattacks
- Google Operating Systems