

POSTGRADUATED · IIIT ALLAHABAD · CYBER LAW & INFORMATION SECURITY

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Education

2022-2024 M.Tech (Information Security) IIIT, Allahabad 8.55/10.0 2014-2018 B.Tech (CSE) Government Engineering College, Bikaner 67.9%

Work Experience_

Assistant Professor GL BAJAJ INSTITUTE OF TECHNOLOGY, NOIDA

Sept 2024 - Present

- Delivered applied training in Python scripting, Linux system administration, and network security fundamentals to 120+ students, improving batch performance by 25%.
- Conducted lab sessions on Wireshark packet analysis, Nmap scanning, Ettercap-based man-in-the-middle (MITM) attacks, and PCAP file analysis to demonstrate protocol behavior and network vulnerabilities.
- Introduced students to web security tools like Burp Suite and Nikto, alongside practical exercises in firewall rule configuration, network segmentation, and traffic filtering concepts.

Publication

• Abhishek Vaish, **Ravindra Kumar**, Bobek Samo, Sternad Simona (2024). "Development of Cyber Security Platform for Experiential Learning", **Journal of Cybersecurity Education, Research and Practice.** (2024.10.62915/2472-2707.1184)

Research & Projects _____

ShadowShield - Advanced Real-Time Firewall with Anomaly Detection Self

May. 2025 - Curr

- Built a real-time firewall with DPI capabilities for enhanced traffic monitoring and security testing in simulated environments.
- Automated GeoIP-based rule generation, blocking 90% of DDoS and port scan attempts during pentests.
- Designed architecture for future integration with SIEM tools (Splunk) and machine learning-based threat prediction modules.

System Design Analysis for Development of Cyber Security Education Platform Thesis Under Dr. Abhishek V. Mar. 2023 - Jun. 2024

- Designed and deployed a cloud-hosted ML-powered cybersecurity education platform (CySecLearn) with integrated collaboration and log management modules.
- Implemented workflows for user access, logging, and security monitoring, enhancing platform stability and visibility.
- Applied data analytics and TAM testing to optimize system performance and improve engagement and skill retention by 35%+.
- Handled multi-environment deployment of CySecLearn with automated server configuration and reporting pipelines; outcomes published in a peer-reviewed cybersecurity journal.

Web Security: Cyber Security Experiment Test Bag Project With Dr. Abhishek Vaish

Jan. 2023 - Jun. 2023

- Developed web security assessments using Acunetix and Nikto, identifying 15+ OWASP vulnerabilities in production systems.
- Documented exploit chains and prioritized remediation workflows, improving patch turnaround time by 60%.

Internship & Certification _

• Cisco Networking Certification — Covered core networking concepts, IP routing fundamentals, security protocols, and network infrastructure assessment.

Feb. 2025

• Completed *Google Cyber security Professional* Cert., focusing on SIEM, incident management, network security, threat detection, risk assessment, and security operations.

Aug. 2024

• Completed 2 Months Internship at ISRO Jodhpur on Project "Sentiment Analysis of Crowdsource Data".

Jun. 2017 - Jul. 2017

Positions of Responsibility

Committee Member

Member & Reviewer of 3rd International Conference on Disruptive Technologies, ICDT-2025

Jan. 2025 - Mar. 2025

Teaching Assistant

• Information Security Law & Regulation: Conducted hands-on sessions, seminars on ISG framework & IT Acts.

Jan. 2024 - Jun. 2024

• Network Security: Designed attack-defense-based network simulations using GNS, Kibana, & DVWA tools.

Jul. 2023 - Dec. 2023

Skills

Programming C/C++, Python, Socket Programming, x86 Assembly **Security Tools** Nmap, Wireshark, ELK, Burp Suite, Acunetix, Nikto

Operating Sys. Ubuntu, Arch Linux, Kali Linux, Windows **Net & Debug Tools** GDB, tcpdump, netcat, iptables

Extra Curricular Activity _

- Led Effervescence'24 (IIIT-A's annual tech fest), managing crowd control and safety protocols
- Volunteer for Innovations in Software Engineering Conference, ISEC'23 held at IIIT, Allahabad.