

Krish Dogra

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Professional Summary

Enthusiastic and highly motivated student with a strong passion for cybersecurity and a keen interest in developing expertise in threat analysis, network security, and ethical hacking. Eager to leverage foundational knowledge in programming (Python, Linux) and cybersecurity principles gained through coursework, self-study, and hands-on lab projects. Committed to continuous learning, problem-solving, and contributing to real-world security challenges. Possess strong analytical skills, attention to detail, and a collaborative mindset. Seeking an internship to apply technical skills, gain practical experience, and grow professionally in a dynamic cybersecurity environment.

Skills

Technical Skills:

Information Gathering & OSINT Tools: theHarvester, Whois, RedHawk.

Security Testing & Tools: Metasploit, Nmap, Burp Suite, Wireshark, L0pht crack.

Vulnerability Management: Nessus.

Programming & Scripting: Python, Java, C, C++, SQL, HTML, CSS, JavaScript.

Reverse Engineering: Ghidra

Networking & Security: TCP/IP, Firewalls, VPNs, network protocols, Intrusion detection/prevention.

Soft Skills:

Leadership, Adaptability, Teamwork, Problem Solving, Critical Thinking

Experience

Quadrafort Technologies Private Limited

May 2024 – July 2024

Web Development Intern

Noida, India

- I Optimized JavaScript memory management to enhance application performance and reduce runtime errors.
- Designed and created reusable React.js components, improving code maintainability.
- Integrated RESTful APIs (Axios) with asynchronous data fetching, streamlining Agile workflows for cross-functional teams.
- Deployed full-stack web applications via Netlify and integrated Firebase services (Firestore) for scalable backend functionality.

Research and Publications

White-Box Adversarial Exploitation of NIDS: Insights from FGSM, PGD, and C&W

Presented at 2nd International Conference CICITN [2025], ABES, Ghaziabad (Awaiting Publication)

Researched and developed a hybrid CNN-LSTM deep learning model to improve anomaly detection accuracy in network traffic.

- Evaluated model robustness against adversarial attacks (FGSM, PGD, Carlini & Wagner) by generating perturbed payloads, observing a minimum of 26.99% drop in classification accuracy under targeted evasion scenarios.
- Analysed attack patterns and model vulnerabilities, proposing mitigation strategies like adversarial training to enhance resilience.
- Benchmarking performed on datasets (CICIDS2017) with metrics including precision-recall, F1-score, and false positive rates.

Personal Projects

Bak-Bak Machine

November 2024

- Implemented an end-to-end encrypted chat application using Python's cryptography library (Fernet) to secure client-server communication via AES-128-CBC encryption, mitigating risks of eavesdropping and MITM attacks.
- Architected a multi-threaded TCP/IP server to handle concurrent client connections securely, with server-generated cryptographic keys for session-specific encryption.
- Integrated socket programming and threading to maintain low-latency communication while preserving data integrity and confidentiality.

TheSocialNetwork	June 2024
<ul style="list-style-type: none"> Developed a full-stack social platform using HTML, CSS, PHP, and MySQL with a focus on user-centric features and security. Enforced a secure user authentication system (login/signup) with password hashing and server-side validation to protect sensitive data. Enabled dynamic content sharing with user-generated posts, multimedia support, and real-time updates on friends' timelines. Planned interactive features including profile customization, and friend-connection management. 	

Education	
Amity University, Noida, Uttar Pradesh	2022 - 2026
Bachelor of Technology in Computer Science and Engineering	
Current CGPA: 9.30	
Manav Sthali School, New Delhi	2011 - 2022
High School Diploma	
Percentage: 94.8	

Certifications	
Introduction to Cybersecurity – Cisco	
Cloud Computing – NPTEL(IIT Kharagpur)	

Extra-Curricular activities	
Cloud and Cyber Security Club, Amity University	2024 – Present
Member, Tech team	
Kind Beings NGO, Noida, Uttar Pradesh	2024 – Present
Volunteer	
Confluence 2025, Amity University	
Volunteer	