Ritik Kumar

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SKILLS

- **Languages**:   C, C++, Python , Java, JavaScript.
- **Technical Skills:**   Network Security, Offensive Security, Penetration testing, Vulnerability Analysis.
- **Tools/Platforms**:   Burp suit, Nmap, Wireshark, Metasploit, Cisco Packet Tracer, TryHackMe.
- **Soft Skills**:   Adaptability, Problem Solving, Team Player, Analytical Thinking.

PROJECTS

Password Strength checker (PSC) | Github   Sep 2025 - Oct 2025

- Built a real-time password strength analyzer using HTML, CSS, JavaScript, Regex, and entropy-based algorithms, achieving ~95% accuracy via length and character diversity evaluation.
- Implemented instant visual strength scoring and crack-time estimation for brute-force, dictionary, and hybrid attack models, improving password awareness by ~40%.
- Optimized client-side security logic for sub-100 ms response times, aligned with NIST & OWASP password security standards.

Secure File Encryption Tool | Github   Aug 2025 - Sep 2025

- Developed a secure file encryption and decryption system using Python (Flask) and HTML/CSS/JavaScript, implementing AES-256-CBC, PBKDF2 key derivation, and per-file unique salt & IV generation.
- Supported multiple encryption algorithms (AES, Caesar Cipher, XOR) with real-time bidirectional encryption/decryption, reducing processing delay by ~30%.
- Designed a user-friendly web interface with strong key validation and cryptographic safeguards, improving usability and task completion efficiency by ~35%.

TRAINING

RHCSA Summer Training | Lovely Professional University |Link   Jun 2025 - July 2025

- Completed RHCSA-focused summer training with intensive hands-on exposure to Linux system administration and RHEL server environments.
- Gained practical experience with LVM, SELinux, Firewalld, YUM/DNF, systemctl, cron jobs, along with user/group management, permissions, and filesystem configuration.
- Performed real-world administrative tasks including boot process control, networking setup, service management, shell-based automation, and Linux security fundamentals.

CERTIFICATE

- FCF (Fortinet Certified Fundamentals) | Cert   Nov 2025
- Infosys Springboard (Automata) | Cert   Aug 2025
- Rh124 & Rh134 - Redhat | Cert   July 2025
- Google Cybersecurity - Coursera |Cert   June 2025
- Privacy and Security in online Social – NPTEL | Cert   May 2025

ACHIEVEMENTS

- TOP 2% global on TryHackMe Link   Nov 2025
- 180-day continuous learning streak on TryHackMe Link   Oct 2025
- Legend Tier achievement in Google Cloud Skills Boost Arcade, awarded for consistently completing Advanced cloud labs and skill-based challenges Link   July 2025

EDUCATION

Lovely Professional University   Jalandhar, Punjab
Computer Science and Engineering – Cybersecurity | CGPA: 6.87   Aug 2023 - Present

Inter Science College   Hazaribagh, Jharkhand
Intermediate – PCM | Percentage: 73   Jun 2020 – Mar 2022

High School Garrikkalan   Hazaribagh, Jharkhand
Matriculation | Percentage: 66   Jun 2019 – Mar 2020