# Atul Kumar

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## EDUCATION

**Bachelor's Degree in Computer Applications (BCA)**               08/2019 - 08/2022
Glocal University, Saharanpur, U.P

## SKILLS

**Technical:** Ethical Hacking, Red Teaming, Web Application Security, Penetration Testing, Vulnerability Assessment and Penetration Testing, Network Administration, Linux Administration.

**Soft Skills:** Highly adaptable with a demonstrated capability to quickly learn and apply new concepts and technologies.

## PROJECTS

**EduFinanceHub | HTML, CSS, JavaScript, PHP, MySQL**

- Implemented a comprehensive and responsive web application to manage student and financial records, eliminating manual processes and streamlining payment collection.

- Optimized functionalities such as payment tracking, overdue reminders, and financial reporting for administrators and teachers.

- Integrated a responsive design to ensure seamless access across desktops, tablets, and smartphones Enabled detailed reporting features for generating financial summaries and exporting data for audits.

**SafeCrypt | Python, Cryptography**

- Built a Python-based encryption tool with automatic key generation, ensuring robust data protection.

- Developed a command-line interface (CLI) to enhance encryption and decryption processes.

- Utilized industry-standard cryptographic libraries to ensure robust data security.

**SSH Remote Backup Encryption | Bash, SSH, GPG, SCP**

- Designed a secure, automated backup solution using Bash scripting, integrating SSH for remote connectivity and GPG for encryption.

- Guaranteed end-to-end encryption of sensitive data during backup and storage, minimizing risks of data breaches.

- Scheduled daily incremental backups, reducing storage requirements while maintaining recovery options.

**SHA-256 Hash Tool | Python, Tkinter, hashlib**

- Designed a desktop application to generate and verify SHA-256 hashes, ensuring file integrity.

- Constructed an intuitive GUI using Tkinter for easy file hash validation.

- Embedded file browsing capabilities to simplify the hash validation process.

**Samba Server File Sharing | Linux, Samba**

- Deployed a secure Samba server to facilitate cross-platform file sharing between Windows and Linux systems.

- Implemented access controls and user authentication to restrict file access based on user roles.

- maximized server performance to handle large file transfers efficiently..

**DNS Configuration with Bind9 | Bind9, DNS, Ubuntu**

- Established and configured a local DNS server using Bind9 on Ubuntu to improve internal network efficiency.

- Secured DNS configurations by implementing proper zone transfers and restricting unauthorized access.

- Enhanced network security by configuring secure zone transfers, preventing DNS spoofing and attacks, and reducing the risk of data manipulation.

# TRAINING & COURSES

- Computer Networking (CCNA 200-300)
- Certified Ethical Hacker, Social Engineering
- Dark Web
- Python Tools Hacking
- CompTIA Security+
- Computer Hacking Forensic Investigation (CHFI)
- Top 20 Critical Web Hacking Vulnerabilities.
- Bug Bounty Hacking & Web Security Testing.
- Ultimate Ethical Hacking & Penetration Testing.

# Certifications

**Certified Ethical Hacke**r (Practical) Issued by EC-Council, Apr 2023 Credential ID: ECC2793056418

# LABs & CTFs

- Completed 100+ hands-on labs in PortSwigger, showcasing expertise in identifying and exploiting web security    vulnerabilities such as **SQL Injection**, **Cross-Site Scripting (XSS)**, and **Authentication Flaws**.
- Gained practical experience using platforms like **bWAPP**, **Juice Shop**, **DVWA**, and **Altoro Mutual** to simulate real-world scenarios.

- **TryHackMe**: Successfully completed 70+ labs, mastering **web application security**, **vulnerability exploitation**, and solving **real-world CTF challenges**, enhancing proficiency in tools like **Burp Suite**, **Nmap**, and **Metasploit**.