Aarav Tripathi

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Projects

Password Strength Checker/ *Java, DSA*   **August 2024 − September 2024**
- Developed a Password Strength Checker in Java, allowing users to evaluate the security level of their passwords
- Implemented a scoring system that analyzes password length, character diversity, and common pattern detection
- Ensured that the program provides real time and effective suggestions to improve security
- Github Repository Link: **https://github.com/aaravtrips/PASSWORD-STRENGTH-CHECKER/tree/main**

Password Manager/ *C++, File handling, Hashing (SHA-256), OpenSSL*   **June 2024 − July 2024**
- Developed a secure password manager in C++, utilizing SHA-256 hashing to ensure robust encryption of stored credentials.
- Implemented secure password storage and retrieval mechanisms, preventing plaintext exposure of sensitive user data.
- Ensured data integrity and protection by incorporating salted hashing, mitigating brute-force and dictionary attacks. Github Repository Link: **https://github.com/aaravtrips/CYBER-SEC.-PROJECTS**

Certificates

Self-Paced DSA   **September 2024**
GeeksForGeeks

Cyber Security Essentials   **November 2024**
IBM & Coursera

Ethical Hacking Essentials   **November 2024**
EC Council & Coursera

Digital Forensic Essentials   **November 2024**
EC Council & Coursera

Cloud Computing   **November 2024**
NPTEL

Achievements

GeeksForGeeks   **January 2025**
- 420+ questions with a coding score of 1204

Arduino workshop with a live project on Infrared sensor   **April 2023**
- Learnt implementation of C++ codes on IOT devices and micro controller board like Arduino Uno
- Implemented the knowledge gained in the workshop on a project based on infra red sensors

Skills

Languages C++, Java, Python, C

Technologies/Frameworks: HTML, CSS, KALI, Ubuntu, Wireshark, OSINT Tools, Forensic tools, Cisco Packet Tracer

Tech Skills: Data Structures and Algorithms, Debugging, OSINT, Digital forensics, Ethical Hacking basics

Soft Skills: Team Player, Project Management, Adaptability and flexibility, Communication and interpersonal Skills

Education

Lovely Professional University Punjab   **2022 − 2026**
Computer Science and Engineering — CGPA: 6.54   *Phagwara, Punjab*

Kendriya Vidyalaya No.1 Amritsar Cantt   **2020 − 2021**
12th with Science — Percentage: 74%   *Amritsar, Punjab*

Army Public School Bikaner   **2018 − 2019**
10th — Percentage: 76%   *Bikaner, Rajasthan*