

Dalveer Singh

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SUMMARY

Computer Science graduate with a focus on cybersecurity and hands-on experience in developing security tools and applications. Proficient in Python, Bash, and security frameworks like NIST and OWASP. Skilled in threat analysis, secure coding, and using tools such as Splunk and Suricata to enhance system protection.

EDUCATION

JCDM College of Engineering, Sirsa, Haryana

June 2025

*Bachelors of Technology, 7.55 GPA
Computer Science Engineering.*

Govt. Polytechnic Collage, Sirsa, Haryana

May 2022

*Diploma 7.71 GPA
Computer Science Engineering.*

SKILLS

Programming languages: Python, Bash, SQL, Network Security, Security Audits, Vulnerability Assessment

Frameworks: NIST, CIA Triad, OWASP Security Principle, Kill Chain Model, RMF, ISO/IEC 27001

Tools: Splunk, Elasticsearch, Chronicle, Suricata, Snort

Platforms: Windows, Linux

Soft skills: Analytical Thinking & Problem-Solving, Communication & Active Listening, Critical Thinking

WORK EXPERIENCE

Exposys Data Labs

Apr 2025

Internship: 1 Month

Domain: CyberSecurity

- Developed a secure image encryption/decryption application in **Python** using the **Triple DES (Data Encryption Standard)** algorithm.
- Built a **GUI with Tkinter** to provide a user-friendly interface for encrypting and decrypting image files.
- Designed and implemented a custom passkey system to simplify key management without storing or logging encryption keys.
- Ensured data privacy and integrity while maintaining ease of use for non-technical users.

PROJECTS

Guardium

Jan 2025

- Developed a comprehensive antivirus solution using Python, integrating real-time scanning, threat detection, quarantine management, and secure file encryption/decryption for safe quarantine and restoration of infected files.
- Implemented a user-friendly web interface with Eel and JavaScript, enabling seamless interaction and real-time updates.

Password Manager

Jul 2024

- Developed a desktop-based Password Manager using Python and Tkinter, featuring password generation, secure storage, and retrieval of credentials with auto-copy functionality for ease of use.
- Utilized JSON for data storage and integrated Pyperclip for clipboard operations, ensuring efficient and user-friendly interactions

The Watcher

Jun 2025

- Developed The Watcher, an open-source Intrusion Detection System (IDS) designed to automate the detection and analysis of potential cybersecurity threats targeting organizations. Built using Flask and it is a Host Based Intrusion Detection System.
- Implemented a user-friendly interface with great dashboard using Flask Framework and Jinja Templates and perform CRUD operation on database using Flask APIs.

CERTIFICATE

Google Cybersecurity Professional Certificate

Mar 2024

- Completed a comprehensive, hands-on program covering threat analysis, risk management, incident response, and security tools aligned with industry frameworks like NIST and RMF.

100 Days of Code: The Complete Python Pro Bootcamp

Oct 2024

- Mastered Python fundamentals and advanced programming concepts through daily, hands-on coding challenges.