DEV MANAV

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SUMMARY

Security-focused Computer Science graduate (2026) with hands-on experience in **network security**, **penetration testing**, and **vulnerability assessment** using industry-standard tools. Proficient in **Kali Linux**, **Burp Suite**, **Nmap**, and **Wireshark** for threat detection and network analysis. Built secure systems applying **AES-256**, **RSA**, and role-based access control. Seeking an entry-level **Cybersecurity Analyst** or **SOC Analyst** role.

SKILLS

Programming Languages: Python, SQL, Bash, JavaScript

Security Tools: Kali Linux, Burp Suite, Nmap, Wireshark, Metasploit, Netcat, Gobuster

Network Security: TCP/IP, DNS, HTTP/S, Firewalls, IDS/IPS, VPN, Network Scanning, Packet Analysis

Security Concepts: Penetration Testing, Vulnerability Assessment, OWASP Top 10, MITM, Reconnaissance

Cryptography: AES-256-GCM, RSA-2048, SHA-256, Argon2id, Public Key Infrastructure

Databases: MySQL, PostgreSQL, SQL Server

Tools: Git, GitHub, VS Code, Jupyter Notebook, Linux CLI

PROJECTS

Secure File Transfer System | *End-to-End Encrypted Transfer Platform | Python, Flask, AES-256-GCM, RSA-2048* GitHub

- Built end-to-end encrypted transfer platform using **AES-256-GCM** symmetric encryption and **Flask**.
- Implemented **RSA-2048** asymmetric key exchange for secure session key distribution between endpoints.
- Applied **SHA-256** hash verification pre- and post-transfer ensuring full data integrity validation.
- Designed **RBAC** model (Admin, Sender, Receiver) with **Argon2id** password hashing for access control.
- Built chain-hashed **audit log** for tamper-evident tracking supporting **GRC compliance** reporting.

ClipGuard | *Secure Real-Time Data Sync | Python, FastAPI, WebSocket* GitHub

- Built secure real-time sync over **WebSocket** with authentication and session management across devices.
- Designed time-based **rotating PIN** system (6-digit, 5-min expiry) for secure pairing and access control.
- Implemented **MD5 hashing** and origin validation to prevent replay attacks and unauthorized data injection.
- Engineered **QR-based** device pairing reducing attack surface of manual credential entry.
- Applied **timestamp debouncing** and origin flags to detect and block duplicate or malicious sync requests.

Readme Studio | *Security-Aware Developer Tool | Next.js, TypeScript, Shannon Entropy* GitHub

- Engineered a **DevSecOps** secret scanner using **Shannon entropy** and **regex** to detect credential leaks.
- Detected API keys, tokens, and hardcoded secrets in developer input streams via statistical pattern analysis.
- Implemented diff-snapshot history to track document changes, analogous to **security audit trail** logging.
- Scanned 3,300+ technology records in real time with filtering and anomaly detection across input data.
- Built client-side **data persistence** pipeline with zero server exposure, minimizing attack surface.

MedAI | *ML Prediction System | Python, Streamlit, Scikit-learn, Pandas, NumPy* GitHub

- Built a **Streamlit** ML app predicting diseases via three parallel classifiers achieving **91.3%** accuracy.
- Encoded symptom inputs into binary feature vectors processed through a **Scikit-learn** classification pipeline.
- Ran Naive Bayes, Decision Tree, and Random Forest in parallel; consensus output improved **prediction reliability**.
- Cleaned and structured symptom-disease dataset using **Pandas** and **NumPy** for training and validation.
- Delivered multi-model output covering **40+ disease classifications** from structured symptom input data.

EDUCATION

Raj Kumar Goel Institute of Technology and Management, Ghaziabad 2022 – 2026
Bachelor of Technology — Computer Science and Engineering

CERTIFICATIONS

- SQL and Relational Databases — IBM Verify Certificate
- Python for Data Science — IBM Verify Certificate