

SHREE CHARAN N

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SUMMARY

Computer Science undergraduate targeting Software Engineering and Cybersecurity Engineering roles. Built 3+ full-stack and security applications using Python, React, and FastAPI, delivering a 50% reduction in documentation effort and 95% task success rate with AES-256, RSA, and Zero Trust implementations.

TECHNICAL SKILLS

- Languages:** Python, JavaScript, SQL, HTML, CSS
- Software Development:** React, FastAPI, SQLAlchemy, REST API Design, Git/GitHub, Docker, Agile Development, Full-Stack Architecture
- Cybersecurity:** AES-256, RSA, JWT Authentication, RBAC, IAM, Zero Trust Architecture, Threat Modeling, Risk Assessment, Incident Response, Digital Forensics, Chain of Custody, GRC
- Security Tools:** Wireshark, Nmap, TCPdump, Kali Linux, FTK, Scapy
- Cloud & Databases:** AWS, Microsoft Azure, SQLite, Firebase Authentication, Database Design

EXPERIENCE

Cybersecurity Engineering Intern – Hindustan Aeronautics Limited (HAL), Helicopter Division May 2025 – Jun 2025

- Engineered a Python-based DRM platform securing engineering documents across 50+ endpoints using AES-256 and RSA encryption
- Implemented biometric authentication and device binding across 3 access tiers, reducing unauthorized access attempts by 40%
- Designed watermarking and expiry-control mechanisms for 100+ classified documents, cutting manual tracking effort by 30%

AI Fluency Intern – FlyRank

Jul 2026 – Aug 2026

- Evaluated 15+ AI-generated software modules against enterprise security, scalability, and compliance requirements
- Conducted technical reviews across 10+ AI-generated codebases, reducing post-deployment defects by 25%
- Assessed AI workflow reliability across 5+ production pipelines, improving code review turnaround time by 20%

PROJECTS

NEXUS-DFI – Digital Forensics Investigation Platform | github.com/Charan291005/NEXUS-DFI Jun 2026 – Jul 2026

React, FastAPI, SQLAlchemy, SQLite, Firebase Auth

- Architected a full-stack forensics platform with a RESTful API, managing 100+ evidence records across case workflows
- Implemented RBAC across 4 user roles with backend token verification, enforcing least-privilege access
- Integrated AI-assisted report generation and immutable audit logging, cutting documentation time by 50%

DRM Application – Document Rights Management System | github.com/Charan291005/DRM-APP May 2025 – Jun 2025

Python, AES-256, RSA, Zero Trust Architecture

- Developed a Python-based DRM system enforcing AES-256 and RSA encryption across 50+ test documents
- Integrated device binding and biometric authentication, blocking 100% of simulated unauthorized access attempts
- Designed expiry-controlled and watermarked policies for 3 document sensitivity tiers under Zero Trust principles

SecureImage – Encrypted Steganography Tool | github.com/Charan291005/Secure-Image- Jan 2025 – Apr 2025

Python, OpenCV, AES-256-CBC, PBKDF2

- Engineered a desktop GUI enabling secure communication via LSB steganography and AES-256-CBC encryption
- Implemented PBKDF2 key derivation with 10,000+ iteration rounds, strengthening password-based security
- Validated usability through structured testing with 20+ users, achieving a 95% task success rate

EDUCATION

Vellore Institute of Technology, Sehore

Aug 2023 – May 2027

B.Tech, Computer Science (Cybersecurity & Digital Forensics) – CGPA: 8.5/10

Madhya Pradesh, India

Coursework: Data Structures & Algorithms, OOP, OS, DBMS, Computer Networks, Software Engineering, Cryptography, Network Security, Digital Forensics

LEADERSHIP EXPERIENCE

- President, Android Club** – Directed 10+ technical workshops for 200+ students, coordinating Agile planning and cross-functional teams
- Lead, PR & Outreach, Fusion Club** – Directed sponsorship acquisition and event management, increasing participation by 150%

CERTIFICATIONS

AWS Technical Essentials (AWS) | Introduction to Cybersecurity (Cisco) | ServiceNow Virtual Internship | Generative AI (IBM)