

Nawin Prasath K

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Profile

Passionate engineer with hands-on experience in offensive/defensive security, AI-based threat detection, and vulnerability assessment. Skilled in Python, machine learning, and security frameworks to build intelligent, secure systems. Proficient in penetration testing, ISO/IEC 27001, and developing scalable apps with Python. Focused on automating security workflows and tackling emerging cyber threats through AI innovation.

Professional Experience

Cyber Security Analyst, Revute AI

04/2025 – Present | Hyderabad

Key Responsibilities:

- Developed and tested AI/ML models for anomaly detection, phishing URL identification, and malware classification using Python libraries such as scikit-learn and PyTorch.

Cyber Security Intern, Quantumcona LLP

07/2024 – 09/2024 | Hyderabad

Key Responsibilities:

- Conducted penetration testing and vulnerability assessments using Nessus, Burp Suite, and Nmap.
- Gained expertise in Google Cloud Platform (GCP), focusing on Virtual Machines (VMs) and cloud security.
- Performed security assessments on web applications and infrastructure to identify and mitigate risks.

IoT Intern, Neura AI

08/2023 – 09/2023 | Tiruchengode

Key Responsibilities:

- Developed Raspberry Pi-based security projects, integrating IoT devices with cloud platforms
- Implemented IoT and cloud data API integrations to ensure secure data transmission.
- Worked on securing IoT sensors and cloud-stored data, implementing encryption and access control measures.

Skills

AI Prompting

Firebase Studio

Pentesting

Python Development

GDPR

ISO 27001

Networking

Firewalls

Education

B.E CSE Cyber Security,

KSR Institute for Engineering and Technology

2022 – 2026 | Tiruchengode

CGPA - 8.03

Courses

Python Developer, JetBrains Academy

Jr. Cyber Security Analyst-Career Path, Cisco

Mastering Network Intrusion Defense Advanced, EC-Council

Palo Alto Cyber Security V6, Palo Alto Academy

Awards

Cyber Security Awareness, SKIN FORUM

Fintech Ideathon Winner, CubeAI Solutions

Certificates

MongoDB Associate Python Developer

MongoDB University

ISO/IEC 27001 Information Security Associate™

SkillFront

Plesk Obsidian Professional

Plesk University

ISO 9001 QUALITY MANAGEMENT SYSTEMS ASSOCIATE™

SkillFront

Certified in Cyber Security

ISC2

Projects

Ransomware Simulator

Cybersecurity Project | Python | Malware Analysis | Ethical Hacking

- Developed a simulated ransomware tool in a controlled environment to demonstrate real-world ransomware behaviors, including file encryption, ransom note deployment, and user lockout mechanisms.

Cipher Decoder

Cryptography Project | Python | Information Security | CLI/GUI Tool

- Developed a Python-based encryption and decryption application supporting multiple classical cryptographic algorithms for educational and data obfuscation purposes.

Steganography Analysis Tool

Cybersecurity Project | Python | Steganography | Forensics

- Developed a powerful steganography analysis tool inspired by **Aperi'Solve**, capable of detecting and extracting hidden data from image files using automated analysis pipelines.