

ANAGHA UPADYAYA

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Objective

Detail-oriented Python developer with a strong foundation in secure coding, web security, and data confidentiality. Seeking a Python Full Stack Developer role to apply encryption techniques, threat mitigation strategies, and problem-solving abilities in building secure and scalable web applications.

Education

B Tech in Computer Science & Engineering with Cybersecurity

Jain (Deemed-to-be) University – Faculty of Engineering & Technology | 2026

Class XII

Delhi Public School, E-City | 2022

Class X

Delhi Public School, E-City | 2020

Skills

Programming Languages – Python (Intermediate), Java (Basics)

Frameworks & Libraries – NumPy, Pillow

Tools & Platforms - GitHub, Cisco Packet Tracer, Static Code Analysis

Web Security - Secure Coding, Data Confidentiality, Vulnerability Management

Soft Skills - Problem Solving, Strategic Planning, Communication

Experience

Cybersecurity Intern | Miles Education

Gained hands-on experience in network security using Cisco Packet Tracer

Simulated secure network environments and implemented firewall configurations

Projects

Text Encryption Tool - Built in Python, implementing AES, DES and RSA to allow encryption/decryption of text.

Compared symmetric and asymmetric encryption methods.

Image Encryption Using Pixel Manipulation - Created a utility using XOR operations on RGB values via NumPy and Pillow, transformation image data securely.

Password Analyzer Utility - Developed to evaluate password strength based on entropy, complexity and patterns, offering real-time feedback.

Caesar Cipher Encryption Tool - Demonstrated classical encryption by enabling users to securely encode/decode text using custom shift values.

Basic Keylogger - Built for educational purposes in Python to simulate keystroke logging and raise cybersecurity awareness.

Basic Network Sniffer - Captured and analysed raw packets using socket programming, providing insights into real-time traffic and packet structures.

Certifications & Courses

CompTIA Security+ (SY0-701) - Risk management, IAM, secure software development, network defence, incident response, firewalls, VPNs, vulnerability scans.

PwC Switzerland Cybersecurity Job Simulation | Forage - Integrated defence, risk assessment, network segmentation, firewall configuration, security recommendations

Deloitte Australia Cyber Job Simulation | Forage - Log analysis, breach investigation, suspicious activity detection, incident handling

Mastercard Cybersecurity Experience | Forage - Phishing identification, threat reporting, security training development, awareness strategies

Cisco Introduction to Cybersecurity - Cybersecurity basics, digital threat landscape, key protection practices

Getting Started with Cisco Packet Tracer - Basic network configuration, protocol simulation, virtual lab exercises

Exploring Networking with Cisco Packet Tracer - Dynamic routing, ACLs, network troubleshooting, multi-layer analysis