Raj Tiwari

rt3390814@gmail.com | +917037253431 | LinkedIn | GitHub

EDUCATION

VIT Bhopal University Aug 2023 – Ongoing
Computer Science and Engineering, CGPA: 8.72 *Bhopal, India*

St Mary's Inter College February 2021 – March 2022
Higher Secondary, Percentage: 80.2% *Etawah, India*

St Mary's Inter College February 2019 – March 2020
Senior Secondary, Percentage: 95.4% *Etawah, India*

TECHNICAL SKILLS

Languages: Python, C++, Java, HTML, CSS, JavaScript

Tools & Frameworks: Git/GitHub, MATLAB

Databases: MongoDB, MySQL

Platforms: GitHub, VS Code, Jupyter Notebook

Core: Data Structures & Algorithms (DSA)

RELEVANT EXPERIENCE

Cybersecurity Developer (Hackathon Project) July 2025
Societe Generale Hackathon
- Collaborated with a team to automate network scanning and vulnerability detection.
- Created a full local pipeline using Python, Nmap, and LLaMA 3 for instant vulnerability assessment.
- Gained expertise in AI prompt writing, cyber tool integration, and system setup on Windows using VS Code.

Digital Evidence Collection and Cybercrime Investigation Techniques April 2024

- Gained hands-on experience with cryptographic hashing algorithms (MD5 and SHA-256) for file integrity and evidence validation.
- Utilized Kali Linux forensic tools and Hash Identifier tool to analyse and verify digital data authenticity.

PROJECTS

Amazon E-commerce Clone | LINK March 2025
- Developed a functional clone of the Amazon e-commerce website utilizing HTML and CSS for structure and styling.
- Implemented visually appealing UI elements and incorporated best practices in frontend design to enhance user experience across different devices.
- Demonstrated proficiency in semantic HTML and advanced CSS for layout, styling, and interactivity.

Network Penetration Testing Model July 2025
- Designed and executed a comprehensive network penetration testing model to assess and improve organizational network security.
- Utilized industry-standard tools (such as Nmap etc) to identify vulnerabilities, enumerate open ports, and simulate real-world cyberattacks on networked systems.
- Developed custom scripts to automate scanning and reporting processes, improving efficiency and accuracy in vulnerability detection.

Steganographic Image Detector Tool December 2024
- Designed and implemented a tool to detect hidden information within digital images using steganalysis techniques.
- Utilized methods to analyse pixel patterns and metadata to identify the presence of concealed data in various image formats.

CERTIFICATES

Blockchain and Its Applications (NPTEL)   May 2025

– Learned blockchain fundamentals, cryptography, consensus mechanisms, and distributed ledger technology.
– Explored real-world applications of blockchain beyond cryptocurrencies, including supply chain, and digital identity.

Bits and Bytes of Computer Networking (Coursera)   Dec 2024

– Developed a strong foundation in computer networking concepts, including network layers, protocols, hardware, and troubleshooting.
– Completed practical labs on the OSI model, TCP/IP, routing, switching, and network security fundamentals.

Digital Forensics Masterclass – DFMC, DFIR (Udemy)   July 2025

– Acquired hands-on skills in digital forensics and incident response, including memory analysis, evidence collection, and forensic tools.

Python Essentials, VITYARTHI   May 2024

– Earned expertise in Python programming, data structures, and problem-solving.