Raj Tiwari

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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

Certified Data Science Professional, Oracle   September 2025

– Achieved recognition as an Oracle Certified Professional, demonstrating expertise in cloud infrastructure and data science tools, methods, and best practices. Certificate valid through September 2027

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.

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.