SUPREETY JHA

Jamshedpur India | +91 9304077132 | supreetyjha@gmail.com | in LinkedIn

Future-Ready Security Specialist | Armed with a foundation in CN, OS, and DBMS and hardened by field experience with law enforcement and red-teaming units. I specialize in turning theoretical "what-ifs" into practical defense strategies. From analyzing crime data with the Bhopal Police to simulated corporate defense, I am focused on one goal: making the digital world a harder target. Eager to contribute technical and collaborative skills to the innovative digital world.

Technical Skills

- Graphic Design & UI/UX: Figma, Canva
- Programming Languages: Python, C++, Java., HTML, CSS, JavaScript
- Microsoft Software: Word, Excel, PowerPoint, Teams.
- Core CS: Computer Networks (TC/IP), Operating Systems (Linux/Windows), DBMS(SQL), DSA.
- Database (SQL): MongoDB, Oracle
- Cybersecurity: Digital forensics, Security, Networking Fundamentals,
- Security Tools: Wireshark, OWASP ZAP, Nmap, Firewall Configuration.
- Cloud & Identity & Access Management (IAM), RBAC.

Professional Experience

Tata Consultancy Services (TCS) | *Cybersecurity Job Simulation (Forage)* |.   **Jan 2026**

- Implemented **AWS IAM** policies and identity strategies to secure enterprise cloud resources.
- Authored technical documentation aligning security controls with business risk objectives.

Deloitte | *Cyber Security Job Simulation (Forage)* | **Jul 2025 – Jan 2026**

- Performed **log analysis** on web activity to detect anomalies and potential security breaches.
- Executed incident response protocols to mitigate unauthorized network access simulations.

J.P. Morgan Chase & Co. | *Software Engineering Job Simulation (Forage)* | **Jul 2025 – Jan 2026**

- Developed a **Kafka-based** backend application for high-concurrency financial transaction processing.
- Integrated database systems to ensure **data integrity** for real-time user balances and rewards.

Bhopal Police Commissionerate | *Cybercrime Intern* | **Oct 2024 – July 2025**

- Analysed live cybercrime cases and social engineering patterns within the **Cyber Cell**.
- Managed the inaugural intern batch while documenting **SCRB forensic workflows** and evidence procedures.

The Red User | *Security Intern* | **Oct 2024 – Nov 2024**
- Conducted vulnerability scanning (**SQLi, CSRF**) using **OWASP ZAP** and network analysis via **Wireshark**.
- Configured firewalls and researched emerging threats to harden web application security

Technical Projects

Homomorphic Encryption-Based Secure Data Processing (In Progress)

- Developing a secure data processing system using **Microsoft SEAL** to perform computations on encrypted data without decryption (BFV).
- Implementing key homomorphic encryption components such as key generation, encryption, decryption, and encrypted arithmetic operations using C++.

Password Cracker

- Simulated Brute-Force and Dictionary attacks to evaluate credential strength and authentication vulnerabilities.
- Implemented SHA-256/MD5 hashing logic to demonstrate secure password storage and the mechanics of hash collisions.

Caesar Cipher Cryptography Tool

- Designed a cryptographic application for Symmetric Encryption, applying fundamental shift-cipher algorithms to secure plaintext data.
- Engineered the tool to handle data integrity and character mapping using optimized String and Array-based Data Structures.

Weather API Application

- Developed a dynamic interface that integrates REST APIs to fetch and parse real-time meteorological data via JSON.
- Prioritized Secure API Key Management and robust error-handling protocols to ensure application resilience and data security.

Education

10th and Intermediate (Science Stream)   **April 2023**
MOTILAL NEHRU PUBLIC SCHOOL, JAMSHEDPUR
- 10th Score: 92%
- Intermediate Score: 87.5%

B. Tech: **Computer Science and Engineering (CyberSecurity)**   **Sep 2023- Ongoing**
Vellore Institute of Technology, Bhopal
- CGPA: 8.75

Certifications

EC-Council — Digital Forensics Essentials | EC-Council Issued Jul 2025 · Expires Jul 2028 Credential ID ECC6457283109

Security, Compliance and Identity Fundamentals | Microsoft Issued Jun 2025.
Credential URL: verify.certiport.com: b5dY-s4YM

The Bits and Bytes of Computer Networking | Google Issued Dec 2025
Credential URL:
https://www.coursera.org/account/accomplishments/verify/7M66MOPL6R2Z