

Sanjana Lanka

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Education

VIT Bhopal University

BTech

Major in Computer Science; specialisation in Cyber Security and Digital Forensics

Cumulative GPA: 8.55/10

12th Standard |Delhi Public School | CBSE

10th Standard |Bharatiya Vidya Bhavans Public School| CBSE

Bhopal, Madhya Pradesh

Expected May 2026

Cumulative GPA: 83.5%

Cumulative GPA: 91.6%

Projects

SOC Automation and Incident Response Lab

- Built an on-premises SOC lab using **Wazuh**, **Shuffle**, and **TheHive** to automate the incident response workflow.
- Integrated **Wazuh** and **Shuffle** to automatically enrich alerts and create cases in **TheHive**.
- Orchestrated an automated response action via **Shuffle** to perform remediation on a monitored endpoint.

Azure Cloud Security Lab

- Secured a cloud environment on **Microsoft Azure** by implementing **NSGs** to block malicious traffic to a VM.
- Deployed and configured **Microsoft Sentinel** to ingest logs from the environment for threat detection and real-time monitoring.

Gophish Phishing Simulation Lab

- Set up a local phishing lab using **Gophish** and **Docker** to simulate email campaigns.
- Practiced social engineering and analyzed campaign metrics to understand the phishing attack lifecycle.

Publications

First Author: Vulnerability Scanning by CPE-CVE Matching Link: [Publication Link](#)

December 2023

- Conference: The Fourteenth International Joint Conference on Advances in Engineering and Technology (AET 2023)
- Presented and published a paper on dynamically matching CVEs based on CPE entries. The paper addresses reducing human error in updating algorithms and enhancing the organization's vulnerability management system.
- Publication Date: (Scopus indexed in September 2024)

Courses and Certifications

- **Foundations of Cyber Physical Systems** - SWAYAM NPTEL-Completion: April 2024
- **CyberSecurity Job Simulation** - Forage (JP Morgan Chase & Co.)-Status: Ongoing

Skills

- **Cybersecurity Platforms:** Microsoft Sentinel, Wazuh (SIEM), Shuffle (SOAR), TheHive (Case Management), Gophish.
- **Cloud Security (Azure):** Network Security Groups (NSG), Virtual Machines (VMs), Log Analytics, Cloud Networking.
- **Incident Response:** Threat Detection, Automation, Incident Lifecycle, Phishing Simulation, Log Analysis.
- **Containerization:** Docker.
- **Soft Skills:** Problem Solving, Critical Thinking, Team Collaboration

Extracurricular Activities

- Social Media Team, Freelancing Club, VIT Bhopal
- Silver Medal and Gold Medal, Volleyball, AdVITya'23 and AdVITya'24, VIT Bhopal