

ARPIT SIVAKUMAR

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EDUCATION

Integrated M.Tech in Computer Science (Cyber Security)
VIT Bhopal University, Bhopal

Jul 2021 – Jul 2026
CGPA: 8.52/10
(till 9th semester)

Class 12th – CBSE

Atomic Energy Central School, Kakrapar

Mar 2020
75%

Class 10th – CBSE

Atomic Energy Central School, Kakrapar

Mar 2018
75%

TECHNICAL SKILLS

Programming and Web: C++, Python, Bash, PowerShell.

Security & Forensics Tools: Burp Suite, Nmap, Wireshark, Metasploit, Autopsy.

Certifications: Certified Network Security Practitioner (CNSP);

INTERSHIPS

Nuclear Power Corporation of India Ltd. (NPCIL)
Cybersecurity Intern

Sep 2024 –Dec 2024
Kakrapar, India

- Identified a critical vulnerability in Windows endpoints on 200+ assets during audits.
- Deployed an industrial-grade network segmentation firewall, isolating networks and cutting potential lateral-movement attack paths by 60%.
- Assisted in preparing and presenting a cybersecurity awareness session for plant staff, focusing on phishing, password hygiene, and safe browsing practices.

PROJECTS

Recon Crawler

Dec 2024 – Present

Tech Stack: Python, Bash, Shodan API, Nmap, Subfinder, Grep.

- Developed an automated reconnaissance tool that accelerated early-stage security assessments, reducing manual effort by over 70%.
- Integrated various discovery techniques to efficiently uncover assets, supporting bug bounty and red team workflows.

AI-Based Intrusion Detection and Prevention System (IDPS)

Nov 2024 - Present

Tech Stack: Python, Scikit-learn, Pandas, Keras, Snort, Flask, Wireshark

- Developed an AI-driven Intrusion Detection and Prevention System using Random Forest and LSTM models, achieving 95%+ accuracy on NSL-KDD/CICIDS2017 datasets.
- Integrated with Snort and Flask for real-time traffic analysis, alerting, and automated threat response.

Private GenAI Hub

Oct 2024 – Dec 2024

Tech Stack: Ubuntu, Nextcloud, MariaDB, LUKS Encryption, Bash, rsync.

- Deployed a self-hosted Ollama server running LLaMA 3 models on Ubuntu 22.04 with encrypted 3TB RAID-10 storage using LUKS AES-256 and TLS 1.3 for secure local LLM inference.
- Automated daily incremental backups of model outputs and chat sessions to a dedicated NAS via Bash and rsync, achieving less than 15 min recovery time.

Two-Factor Authentication (2FA) System

Sep 2023 – Dec 2023

Tech Stack: Python, Tkinter, pyotp, Git.

- Built a cross-platform desktop application implementing TOTP/HOTP for secure two-factor authentication.
- Configured internally to secure 10+ user accounts, improving login security and access control.

CO-CURRICULAR

- Global Top 200 – HackTheBox International CTF
- Event Coordinator, Linux Club-Led CTFs, ran 3+ Linux workshops, and personally mentored 50+ students.
- Core Member, OWASP Club- Delivered 3 major cybersecurity workshops for 200+ attendees, focusing on ethical hacking.
- Languages: English, Hindi, Tamil, Gujarati.