

Hariji Singh

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EDUCATION

VIT Bhopal University (CGPA - 8.8)

Integrated Masters in Computer Science Engineering with a minor in Cybersecurity

Bhopal, Madhya Pradesh

Sep. 2021 – Sep 2026

Sant Atulanand Convent School

Class XII - 77.6%

Uttar Pradesh

Apr. 2019 – Mar 2020

Sant Atulanand Convent School

Class X - 86.4%

Uttar Pradesh

Apr. 2017 – Mar 2018

TECHNICAL SKILLS

Languages: Python, C++

Tools: Wireshark, tcpdump, Nessus, OpenVAS, Nmap, Snort, Suricata, Metasploit, Burp Suite, Aircrack-ng, Maltego, FTK Imager, Volatility

Security Fundamentals: Network Protocols: TCP/IP, UDP, HTTP/S, DNS, SMTP, OSI Model, LAN/WAN concepts, Incident Response lifecycle, MITRE ATT&CK mapping, Cyber Kill Chain

Frameworks: GDPR, DPDP, HIPAA, PCI-DSS, STRIDE, NIST CSF

PROJECTS

HySec Chat - Encrypted Chat Server | *Python, Cryptography*

Dec 2024

- Developed a secure communication platform utilizing industry-standard encryption techniques, ensuring data confidentiality and integrity for over 1,000+ messages daily.
- Implemented a dual-layer encryption approach combining DES (56-bit) and AES (256-bit), enhancing security and making decryption more computationally intensive for attackers.
- Utilised RSA (2048-bit) encryption for secure key management, reducing the risk of unauthorized access to the server infrastructure.

Arthromate | *AWS Cognito, AWS Lambda, DynamoDB, IAM*

May 2023

- Engineered Arthromate's backend infrastructure using AWS Lambda and DynamoDB, processing 500+ daily arthritis pain reports and accelerating diagnosis.
- Designed scalable serverless architecture with API Gateway and Cognito, supporting over 1,000 monthly users at 99.9% uptime with 200ms response time.
- Streamlined the deployment process, cutting release time in half through automated workflows.
- Set up a tracking and alert system to quickly detect and resolve issues, reducing troubleshooting time by 25%.

Automated Wireless Pawning System | *RPi 4B, RFID, Kali, Python Scripting*

Aug 2022

- Created an innovative multi-functional security device that combines Wi-Fi and Bluetooth capabilities with a 2.4 GHz transceiver.
- Achieved compatibility with existing systems through iterative design sprints, streamlining deployment by reducing integration time (e.g., Flipper Zero, Pwnagotchi).
- Implemented RFID functionality using Raspberry Pi for reading/writing data from RFID tags.

CERTIFICATIONS

- Certified Ethical Hacker (CEH)**, by EC-Council (Pursuing)
- Certified App Sec Practitioner(CAP)** by TheSecOps Group
- Certified Network Security Practitioner(CNSP)** by TheSecOps Group

CO-CURRICULAR ACTIVITIES

Linux Club

Technical Team

VIT Bhopal University

June 2023 – June 2024

Cyber Warriors Club

Outreach Team

VIT Bhopal University

June 2022 – June 2023