

Hariji Singh

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Education

VIT Bhopal University

Integrated MTech

Major in Computer Science and Engineering; Minors in Cyber Security.

Cumulative GPA: 8.80/10

Bhopal, Madhya Pradesh

Expected May 2026

12th Standard, Sant Atulanand Convent School

CBSE Percentage: 77.6

Varanasi, Uttar Pradesh

Jul 2020

10th Standard, Sant Atulanand Convent School

CBSE Percentage: 84.6

Varanasi, Uttar Pradesh

Jul 2018

Projects

Arthromate

Mar 2024 – Jul 2024

- 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 up-to 10,000+ 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%.

AWPS (Automated Wireless Pawning System)

Dec 2023 – May 2024

- Created an innovative multi-functional security device that combines Wi-Fi/Bluetooth capabilities and 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 functionalities using Raspberry Pi for reading/writing data from RFID tags..

HySec Chat

Aug 2022 – Jan 2023

- Developed a secure communication platform utilizing industry-standard encryption techniques, ensuring more 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.
- Leveraged RSA (2048-bit) encryption for secure key management, reducing the risk of unauthorized access within the server infrastructure.

Co-curricular

Linux Club, Core Member [Tech Team]

Dec 2023- Jan 2024

- Hosted and maintained CTFD platform on AWS for the duration of the event.
- Developed OSINT, Scripting and miscellaneous (Python) challenges for Third-Eye Quest, Capture The Flag hosted by LINUX Club.
- Managed and volunteered in various technical and non-technical events conducted for over 500+ participants.

Technical Skills

Languages: C++, Python.

Tools: Wireshark, Nmap, Snort, Metasploit, Burp Suite, Aircrack-ng, Maltego, OWASP Zap, EnCase, Volatility.

Frameworks: Cyber Kill Chain, GDPR, STRIDE, NIST CSF, MITRE ATT&CK, PCI-DSS, ISO 27001.

Certifications:

- Developing Secure Software LFD121** by The Linux Foundation,
- CertifiedAppSecPractitioner(CAP)** by TheSecOps Group,
- Certified Network Security Practitioner(CNSP)** by TheSecOps Group.