Hridhya P

Cybersecurity Engineer | Memory Forensics | Malware Analysis | Incident Response

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Profile

Cybersecurity engineer with experience in malware analysis, digital forensics, and incident investigation. Proficient in analyzing compromised systems, recovering forensic artifacts, and building automation tools for RAM dump and disk analysis. Passionate about solving complex cybersecurity challenges through analytical thinking, continuous learning, and collaborative investigation.

Education

Electrical and Computer Engineering, *Amrita Vishwa Vidyapeetham*   10/2022 – 2026
CGPA - 8.01   Kollam, India

Secondary and Higher Secondary, *Bishop More Vidyapith*   Mavelikara, India
10th Percentage - 90.5%
12th Percentage - 89.4%

Projects

Research and Challenge Development   2022 – Present
- Designed advanced CTF challenge across domains including **memory forensics, symbolic-link exploitation, and USB exfiltration**, used in international CTF.
- **Challenge Author, IC3–Asia (International Cybersecurity Challenge 2024)** — authored an Android-based forensic challenge hosted on the **Traboda** platform for the Asia regional finals.
- Authored **"Verboten" (bi0sCTF 2024)** - a digital forensics challenge focusing on file system reconstruction and data obfuscation techniques.
- Created **"Machiavellian" (ShaktiCTF 2024)** - a Windows forensic analysis scenario using FTK Imager and macro-enabled document artifacts to trace social-engineering attacks.
- Developed **"H4Gr1n" (ShaktiCTF 2024)** - a specialized forensics challenge exploring timeline reconstruction and chat database artifacts from a compromised user environment.

Web Application for Cursor Chat and File Generation Timeline Analysis   2025
- Developed a web-based forensic visualization tool for the Cursor application that correlated chat logs and file-generation events, transforming raw event data into dynamic visual insights to accelerate anomaly detection and investigative efficiency.

Ext4 Tool Updation, *DFC korea*   2024
Modified and upgraded a Sleuth Kit Android tool to implement Full-Disk Encryption (FBE) key–based decryption,enabling access to modern encrypted filesystem artifacts for lawful investigations.

Drone Log Parser, *DFC Korea*   2024
Developed a drone parser that enables efficient analysis and visualization for
performance monitoring and anomaly detections.

Interests

- Digital Forensics and Incident Response
- Cloud
- Malware Analysis in Windows OS
- IOT and Smart Grid
- Android Security

Achievements

Digital Forensics Challenge   11/2025
Secured international 1st place in the Digital Forensics Challenge (DFC), a global   Seoul.Korea
competition focused on real-world digital investigation and evidence analysis.

Finshield Bank of India   08/2025
Secured 2nd place for the project "Impersonated Registration and Frauds in Mobile   IIT Hyderabad
& Internet Banking with Behavior-Based User Authentication and Password-Less
Login" at the FinShield Bank of India competition.

Digital Forensics Tech Contest   11/2024
Achieved international 1st place in an Android forensic tool enhancement   Seoul, Korea
competition hosted by the *Korean Institute of Science and Cryptology (KISC)*.

Blackhat   04/2025
Got sponsored for the cybersecurity conference based on the previous years   Singapore
projects.

Winja CTF   03/2025
Secured First place on-site tackling and solving problems on topics like   Goa,India
reversing,forensics,source-code review and so on.

Nullcon   03/2025
Secured sponsor for Asia's largest cybersecurity conference in the women in cyber   Goa, India
category.

W3CTF   03/2024
Secured third place in w3ctf and was invited to attend the bsides conference in   Bangalore, India
Banglore.

RVCExIITB CTF'24   10/2023
Was selected to attend RVCExIITB CTF'24 finals held at R V College of Engineering ⧉ Bangalore, India
conducted by IIT Bombay.