# Hariharan Baskar

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## SUMMARY

Motivated and technically skilled Cybersecurity Analyst with a **Master's in Cybersecurity at the University of Hertfordshire**, with a focus on practical, project-based learning. Developed hands-on experience in **vulnerability assessment, secure coding, and threat analysis** through academic work and a Java programming **internship at Shiash Info Solutions**.

Proficient in widely used tools such as **Kali Linux, Wireshark, Nmap, Metasploit, Burp Suite and Nikto**, along with scripting experience in **Python and Bash** and **strong understanding of network security, Linux environments, and basic SIEM operations**. Skilled in using these tools for reconnaissance, vulnerability scanning, packet analysis, and penetration testing tasks within both academic and project environments.

Knowledgeable in frameworks like **ISO 27001**, **GDPR**, and the **CIA Triad**, with growing interest in ethical hacking and AI/ML for threat detection. Eager to contribute to cybersecurity teams and enhance organisational security through continuous learning and a proactive mindset

## CORE SKILLS

- Incident Response & Threat Intelligence
- Digital Forensics & Malware Analysis
- Security Information & Event Management (SIEM)
- Vulnerability Assessment & Penetration Testing
- Network Security & Firewall Management
- Identity & Access Management (IAM)
- Cryptography & Data Protection
- Cybersecurity Risk Management & Compliance (ISO 27001, NIST, GDPR)
- Programming & Scripting (Python, PowerShell, Bash, MySQL, HTML/CSS, C/C++)
- Security Tools (Splunk, Nessus, Metasploit, Wireshark, CrowdStrike)
- Cryptography & Data Protection (Encryption concepts, TLS/SSL, hashing functions)

## PROFESSIONAL EXPERIENCE

### Java Programming Intern

**Shiash Info Solutions Pvt. Ltd**., Sholinganallur, Chennai, India — Aug 2022 to Nov 2022

- Contributed to the development of Java-based web applications, focusing on modular, object-oriented programming principles
- Gained hands-on experience with back-end development, debugging, and integration of REST APIs
- Practiced secure coding techniques and followed SDLC practices under the guidance of senior developers
- Collaborated with a small team to build and test core application features, improving code efficiency and maintainability
- Strengthened understanding of application security, exception handling, and input validation in Java-based systems

## EDUCATION

### MSc Cybersecurity 2024 - 2025

**University of Hertfordshire,** Hatfield, United Kingdom

- Focus on **digital forensics, penetration testing, cyber operations, and threat modelling, Information Security, Management and Compliance**.
- Currently undertaking a final year project on "**Automated Web Application Penetration Testing Framework"**, exploring real-world cybersecurity applications and automated testing.
- Developed hands-on skills through practical labs and coursework aligned with industry standards such as **ISO 27001**, **GDPR**, and **NIST CSF**

### BE Computer science Engineering 2020 - 2024

**Anna University,** Chennai, India

- **First Class with Distinction** | **GPA: 8.61 / 10**.
- Covered core areas such as **Data Structures**, **Operating Systems**, **Computer Networks**, **Cryptography and Network Security, Compiler Design, Machine learning & Artificial Intelligence**. and **programming (Java, C++, C, Python, MySQL, HTML/CSS).**
- Led a funded IoT project (**Smart Glasses for the Visually and Hearing Impaired**) under the Innovation and Entrepreneurship Development Cell (IEDC)

## CERTIFICATIONS

- Google Cybersecurity (completed)
- CompTIA CySA+ (In Progress)
- The Complete Cyber Security Course – Hackers Exposed (completed – Udemy)
- Kali Linux for Beginners – (completed – Udemy)

## TECHNICAL SKILLS

- **Security Tools:** Nessus, Metasploit, Wireshark, CrowdStrike, OpenVAS
- **Penetration Testing:** Kali Linux, Burp Suite, OWASP ZAP, Nmap
- **Digital Forensics & Malware Analysis:** EnCase, FTK, Autopsy, Volatility
- **Programming & Scripting:** Python, PowerShell, Bash
- **Frameworks & Compliance:** ISO 27001, NIST CSF, GDPR, MITRE ATT&CK, CIS Controls

## PROJECTS

**An Automated Penetration Testing Toolkit for Web Applications with Vulnerability Ranking and Reporting**

*Final MSc Project | 2025*

- Designed and developed a modular framework that integrates open-source tools (Nikto, Nmap, Gobuster, etc.) to automate vulnerability scanning, ranking, and reporting for web applications.
- Focused on minimizing false positives and enhancing efficiency in penetration testing processes.
- includes AI/ML capabilities for anomaly detection and attack simulation**.**

**Team-Based Penetration Testing Simulation**
*MSc Cybersecurity Group Assignment | 2025*

- Collaborated in a team to conduct a black-box penetration test on a simulated corporate server.
- Conducted full attack lifecycle: reconnaissance, scanning, exploitation, privilege escalation, and reporting.
- Identified and exploited vulnerabilities to gain root access through five unique attack vectors.
- Delivered detailed mitigation reports for technical and non-technical stakeholders.
- Demonstrated skills in reconnaissance, privilege escalation, reporting, and ethical hacking workflows.

**Digital Forensics Case Investigation**
*MSc Cybersecurity Assignment | 2025*

- Acted as a forensic analyst investigating a suspect system image provided by a customs agency.
- Conducted disk structure analysis, OS fingerprinting, user activity reconstruction, and artefact recovery.
- Extracted and correlated artefacts (email activity, internet history, user documents) to determine user intent and potential criminal links.
- Maintained chain of custody, contemporaneous notes, and integrity validation using hash verification.
- Generated a professional digital forensics report detailing evidence and findings.