Hardee N Hatode

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Professional Summary

MSc Cybersecurity graduate from the University of Surrey with Distinction and a background in Computer Science. Completed a dissertation focused on evaluating vulnerabilities and defences in MQTT-based smart home networks using Wireshark, Nmap, ESP32, and Ubuntu. Strong understanding of TCP/IP, OSI model, firewalls, access controls, and security standards. Skilled in Python, Linux, SQL, and practical vulnerability assessment. Interested in roles involving network security, risk assessment, and applied cybersecurity testing.

Education

University of Surrey, Guildford   *2025-2026*
MSc Cybersecurity(NCSC-certified programme)   *Distinction*
University of Mumbai, Mumbai   *2021-2024*
BSc Computer Science   *CGPA: 6.99/10.0*

Academic Research

MSc Dissertation – Security Evaluation of IoT Communication Protocols and Device Configurations in a Simulated Smart Home Network
University of Surrey, 2025

- Designed a reproducible smart home IoT testbed integrating ESP32 microcontrollers and the Mosquitto MQTT broker.
- Demonstrated and mitigated real-world attacks, including replay, topic hijacking, sniffing, and denial-of-service.
- Applied and tested countermeasures like TLS, ACLs, and freshness validation to assess defence effectiveness.
- Analysed security–performance trade-offs and proposed recommendations for secure-by-default IoT deployment.

Relevant Coursework

Ethical Hacking and Network Security
University of Surrey

- Conducted comprehensive vulnerability assessments and penetration tests in simulated environments using Kali Linux, Nmap, and Metasploit to identify critical system flaws.
- Executed offensive manoeuvres, including privilege escalation, payload delivery, and session hijacking, while analysing network traffic artefacts using Wireshark to understand detection vectors.
- Translated technical findings into remediation strategies and risk-based reports, demonstrating the ability to bridge the gap between technical exploitation and business impact

Information Security for Business and Government
University of Surrey

- Performed a full risk assessment of the Equifax breach using ISO 27005 methodology. Identified threat sources, evaluated vulnerabilities and quantified business impact. Recommended controls aligned to ISO 27001 and GDPR compliance.
- Produced risk register entries, assessed likelihood and impact, and recommended remediation and monitoring actions for senior stakeholders.

Certificates

- Google (Coursera): Cybersecurity Specialisation
- Google (Coursera): Get Started with Python
- Acmegrade: Cyber Security Training

Project

Web Vulnerability Scanner *|Python| Flask| OWASP ZAP| Burp Suite| Docker*
- Built a Flask-based web security scanner combining heuristic checks with OWASP ZAP automation and Burp XML import.
- Implemented report exports (JSON/HTML/PDF) and severity filtering for triage.
- Integrated Docker-based ZAP scanning and unified results into a single UI.

Deepfake Detection System *|Python| TensorFlow| OpenCV| Jupyter Notebook*
- Built a deep learning-based system to detect manipulated media using CNNs and GANs.
- Processed datasets with variations in lighting, facial expressions, and backgrounds- Achieved 99% classification accuracy through supervised learning.

Evaluated performance via precision, recall, F1-score; deployed as a standalone application.

Expense Management Android App|*Kotlin |SQLite*
- Developed a mobile app to track and manage personal expenses using Android Studio.
- Enabled real-time entry, tracking, and summary generation for users.

Positions of Responsibility

Student Ambassador: Unilife, UK   *April 2025 - Present*
- Serve as a communication bridge between student residents and property management.
- Organise social and onboarding events to enhance the student community experience.
- Provide support to new residents during move-ins and throughout the year.

Skills/Achievement

- **Cybersecurity Tools:** Wireshark, Nmap, Burp Suite, Kali Linux, Metasploit, OWASP ZAP
- **Network & IoT Security:** MQTT, TLS/SSL, Access Control Lists (ACLs), ESP32 configuration, VM-based network simulation
- **Security Concepts:** Cryptography fundamentals, firewalls, access controls, ISO 27001 principles
- **Operating Systems:** Linux (Ubuntu, Kali), Windows
- **Programming Languages:** Python, Bash, Kotlin, C, Java
- **Web Technologies:** HTML, CSS, Django, MongoDB, Node.js.
- **Database Management:** Power BI**,** SQL, MongoDB.
- **Soft Skills:** Problem Solving, Critical Thinking, Communication, Time Management, Quick Learner.

Languages

- English
- Hindi
- Marathi