BHARATH DIBBADAHALLI HANUMANTHAPPA

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OBJECTIVE

A dedicated Master's student in Cybersecurity at the University of Maryland, actively seeking a summer 2025 internship to gain hands-on experience in the field. I bring a solid foundation in threat detection, honeypot development, SIEM tools, and cybersecurity research, along with hands-on experience in designing security solutions and improving incident response systems. Eager to contribute to red team operations and deepen my skills in offensive security, with a particular interest in the social engineering aspect of penetration testing.

EDUCATION

UNIVERSITY OF MARYLAND, COLLEGE PARK — College Park, Maryland
Master of Engineering, Cybersecurity — Expected May 2026

PES UNIVERSITY — Bengaluru, India
Bachelor of Technology, Computer Science and Engineering — May 2024
GPA: 3.45

SKILLS

Python, Bash, Rust, Java, JavaScript (ReactJS), Metasploit, Splunk, Nessus, Burp Suite, Kali Linux, OWASP ZAP, John the Ripper, Nmap, BeEF, Aircrack-ng, Snort, Mimikatz, Social Engineer Toolkit, Netexec, WinRM, Gophish, Cryptography, Wireshark, CISCO Packet Tracer, Flask, ReactJS, OpenCV, MySQL, SQLite, MongoDB, CMMC Framework, NIST Framework, AWS, Docker, Jenkins, Postman API

TECHNICAL EXPERIENCE

PESU Research Foundation in collaboration with ActiveBytes — Bengaluru, India
Intern, Cybersecurity — January 2024 – June 2024

- Developed a honeypot network from scratch for a website, aimed at enhancing threat detection capabilities and contributing to the advancement of the cybersecurity product line for ActiveBytes.
- Gained practical experience in developing, testing, and optimizing modern security solutions while showcasing flexibility and expertise in a fast-paced work setting.
- Collaborated with other interns to develop a SIEM tool with features like honeypot, threat intelligence platform and automated incident response system which enhances threat detection and mitigation.

PROJECTS

AIDORK — **February 2025**

- Leveraged GPT-4 (Nous-Hermes-2-Mistral-7B-DPO) to generate customized Google Dorks based on a given keyword, streamlining the discovery of relevant personal profiles, documents, and articles with enhanced search query precision.
- Automated the extraction of structured content from JavaScript-heavy websites using Selenium, enabling efficient, hands-free data collection from dynamic pages.
- Utilized PyMuPDF to extract text from online PDFs without downloads, ensuring fast and accurate processing of large volumes of document data for analysis.

System Monitoring and Keylogging Tool — **August 2024**

- Built a powerful Python-based system monitoring application that uses Pynput, Sounddevice, and PIL to automate screenshots and microphone recordings while logging keystrokes, clipboard data, and system information.
- Included Smtplib for secure data transmission, enabling remote logging and system audits in real time.
- PyInstaller was used to package the utility as a stand-alone Windows application, making system deployment simple and removing the need for Python.

ACHIEVEMENTS

- **Research Paper:** Presented "Holistic Solutions for ADHD with Machine Learning" at the International Conference on Data Intelligence & Secure Computing (DISC 2024), Chennai. Awarded the "Best Paper" for our track. Publication is in progress.
- Awarded Certificate of Appreciation by the **IEEE Computer Society** for developing a "Real-time Object Measurement Application", achieving **96%** accuracy in measuring objects.
- **Center for Innovation and Entrepreneurship**
  - Co-founded and pitched "Ethnorent," an innovative platform for renting cultural and traditional attire, promoting sustainable fashion and cultural exchange. The startup was pre-incubated on Shark Tank India, where it received valuable feedback on scaling and refining the business model.