Isaac Natarajan
Cybersecurity Analyst

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My Portfolio

About Me

Cybersecurity professional with a combination of hands-on experience in offensive and defensive security operations, as well as vulnerability assessment, malware analysis and incident response. I am familiar with Metasploit, Burp Suite, Nmap, Wireshark, Splunk (SIEM), and FlareVM. I also have experience with Python and Bash scripting for automation and monitoring security data. I am Certified Ethical Hacker trained and knowledgeable on the ISO 27000 security framework. I am currently enhancing skills in advanced threat-hunting and APT.

Professional Experience

Prodigy Infotech | Chennai, India

Machine Learning Intern   *January 2024 to Febuary 2024*

- Applied image classification techniques utilizing convolutional neural networks (CNN) in order to detect anomalous patterns in datasets which is similar to detecting malicious activity or anomalies in systems activities.
- Conducted structured data preprocessing, feature extraction, and performance evaluation—further enhancing critical analytical skills relevant to threat detection and monitoring.
- Tuned models and workflows to achieve higher model accuracy, indicating attention to detail in security risk assessment.

ExcelR Solutions | Chennai, India

Data Science Intern   *July 2023 to October 2023*

- Normalized the large datasets and cleaned them to maintain the integrity and accuracy of the data, a task that could translate to working with log management and Security Information and Event Management (SIEM) analysis.
- Applied predictive modeling technical approaches that demonstrated the student's capacity for anomaly detection which can assist in detecting unusual behavior of networks or users.
- Optimized workflows, validated results, and applied analytical rigor that can be relevant in vulnerability assessment or response to cyber incidents.

Projects

College Bus Monitoring Using ANPR

- *I created a means of detecting bus entry/exit through ANPR cameras, thereby improving campus security.*
- *Developed number plate recognition in Python, allowing for real-time monitoring of all buses.*
- *Completed the work by ensuring detection was accurate in a variety of light conditions and occlusions.*
- *I learned a commercially useful skill set in real-time video processing, automation and security monitoring.*

Tool Tech for Visually Impaired Individuals

- *Created a wearable device combining camera-based vision and audio feedback to inform direction for navigation.*
- *Used advanced computer vision algorithms to detect objects, describe the environment and provide audio feedback.*
- *This project indicates my experience with real-time system design and using sensors to safety concerned build software.*

Fake News Detection (Security-Analytical)

- *Applied NLP to detect misinformation patterns in online content.*
- *Wrote Python scripts to process text and prepare appropriate features for encoded patterns of interest.*
- *This indicates my analytical skills, as well as automation and pattern recognition transferrable to detecting cyber threats.*

Certificates

- **Linux 100:Fundamentals :** *TCM Security*
- **Pre-security :** *TryHackMe*
- **Cyber Security 101 :** *TryHackMe*
- **Oracle Cloud Infrastructure :** *Oracle*
- **CEH & APT :** **Ongoing**

Skills

- **Offensive Security :** *VAPT (Web, system, network, cloud)*
- **Defensive Security:** *SIEM (Splunk), Log Analysis, REMnux, FlareVM, CAPA*
- **Security frameworks & Standards :** *Familiar with ISO/IEC 27001*
- **Scripting and Languages :** *Python, Bash, Powershell, SQL*
- **Tools & Technologies :** *Nmap, BurpSuite, Metasploit, Nessus, Wireshark, Hydra, John the Ripper, Mimikatz, BloodHound, Sqlmap, Smb, Kali Linux*
- **AI & ML Tools :** *Tensorflow, Computer Vision, Keras, Scikit-learn, Pandas, Numpy, matplotlib, Seaborn, YOLO, PyTorch (Basic)*
- **Soft skills :** *Communication, Adaptability, Problem-Solving*

Education

Sathyabama University, Chennai, India   *July 2021 - May 2025*
B.E. Computer Science with Artificial Intelligence & Machine Learning
Secured CGPA 8.23/10

Additional Information

- *Languages - English, Tamil, Malayalam*
- *Currently residing in Sharjah under parent visa sponsorship.*
- *Driving license in progress*