

Isaac Natarajan

Cybersecurity Analyst



Sharjah, UAE | [LinkedIn](#) | natarajanisaac57@gmail.com |
+971543242621 | [Blog](#) | [TryHackMe](#) | [Hackthebox](#)

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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 February 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 safely 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