SHANI K. VARUN

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EDUCATION

Indian Institute of Technology (IIT) Madras   **May 2024 - May 2028**
B.Sc., Data Science & Applications
- **Coursework:** Machine Learning, Big Data Analytics, AI, Data-Driven Security Applications

Quantum University   **Aug 2023 - Jun 2027**
B. Tech, Computer Science & Engineering
- **Coursework:** Cybersecurity, Cryptography, Ethical Hacking, Cloud Security

TECHNICAL SKILLS

- **Programming**: Java, DSA, Python, JavaScript, C/C++, SQL, PHP
- **Cybersecurity Tools**: Burp Suite, Metasploit, Nmap, computer networking
- **Operating systems**: Linux (Kali, Ubuntu), windows
- **Data Science**: Pandas, NumPy, NLP (NLTK, spaCy), Pygame
- **Frameworks**: ISO 27001, NIST

WORK EXPERIENCE

Prodigy Infotech   **Sep 2024 - Oct 2024**
Cybersecurity Intern
- Detected key logger threats using deep packet inspection with MITRE ATT&CK, enhancing system security
- Identified 15+ vulnerabilities using Nessus and Snort, strengthening the security posture of the network

Tata Cybersecurity (Forage)   **Oct 2024 - Nov 2024**
Security Analyst Intern
- Simulated Identity and Access Management (IAM) strategies to enhance security protocols
- Identified vulnerabilities (e.g., misconfigured IAM roles) and prioritized remediation based on CVSS scores.

Mastercard (Forage)   **Nov 2024 - Dec 2024**
Cybersecurity Intern
- Investigated phishing attempts using Python and Linux tools, which improved awareness training and reduced phishing incidents
- Assisted in incident response for APT detection using ISO 27001 standards, enhancing the organization's threat response capabilities

PROJECTS

Network Traffic Analyzer
- Automated real-time packet inspection, improving response time by 20%
- Built a Python tool leveraging Wireshark APIs for real-time packet capture and analysis.
- Automated detection of malicious traffic patterns (DDoS, port scans) using Scikit-learn anomaly detection, improving response time by 20%.

Game Development Suite
- Designed Snake & Sudoku games with optimized algorithms for faster processing.
- Engineered Snake and Sudoku games using Python's Pygame library with optimized pathfinding algorithms.
- Implement a secure scoreboard system with SQLite database encryption to prevent tampering.

Workshops

cyber hunter club
workshop training
- Conducted, as a team member, a workshop on ethical hacking with Kali Linux at Quantum University, training 80+ students on penetration testing tools (Metasploit, Nmap).

CERTIFICATIONS

- **Google Cybersecurity Professional Certificate**: Coursera, 2024
- **Certified Ethical Hacker (CEH)**: In Progress