ARVIND SAI DOODA

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SUMMARY

Dedicated and versatile cybersecurity professional with expertise in Identity and Access Management (IAM), network security, intrusion detection, and incident response. Skilled in leveraging tools like Splunk, Metasploit, and Wireshark for real-time threat detection and mitigation. Proficient in Python, Shell scripting, and data analytics, with a proven record of optimizing workflows and enhancing system security. Notable achievements include developing hybrid intrusion detection systems, blockchain-based voting solutions, and DoS attack mitigation tools. Committed to safeguarding digital assets, reducing risks, and strengthening defenses through proactive collaboration. **Seeking opportunities as a Cybersecurity Intern or Entry-Level Cybersecurity Analyst** to apply technical expertise in protecting critical infrastructures and driving innovative security solutions.

SKILLS

- **Cybersecurity Tools:** SIEM, Metasploit, Wireshark, Splunk, Burp Suite, CyberArk, OWASP Top 10, Nmap, Rootkits, Docker, GitHub , Network packet analyzer
- **Programming & Scripting:** Python, Shell Scripting, Solidity, JavaScript, C, Html, SQL, Bash
- **Cloud Platforms:** Google Cloud Platform (GCP), Amazon Web Service (AWS)
- **Automation & Data Visualization:** Robotic Process Automation (I Automate, UiPath), Tibco Spotfire
- **Soft Skills:** Team leadership, collaboration, problem-solving, Report writing, communication

CERTIFICATIONS

Google Cybersecurity Professional Certificate	(Google)
Practical Ethical Hacking	(Tcm Security)
ISO/IEC 27001 Information Security Certification	(Skill Front)
Cyber Ops Associate	(Cisco)
Network Security Associate	(Fortinet)

WORK EXPERIENCE

Identity and Access Management (IAM) Developer Intern JUNE 2024 - SEP 2024

Forge (Tata Consultancy Services), Chicago, IL

- Conducted IAM readiness for TechCorp Enterprises, identified critical security gaps, and implemented custom solutions, improving system security by 20%.
- Designed and executed project plans for IAM platform implementation, addressing integration challenges and ensuring secure access and documenting integration workflows.
- Utilized Splunk for real-time monitoring and incident response, reducing response time by 30%.

Defensive Hacker Intern JUNE 2023 - JULY 2023

Excelerate, Chicago, IL

- Monitored network activity using Splunk, implemented cryptographic solutions with Python, and configured firewalls to enhance virtual machine security.
- Improved incident detection accuracy by 15% by leveraging hands-on experience with intrusion detection systems (IDS) and analyzing system vulnerabilities.
- Collaborated with a team of 4 to fortify security protocols through virtual machine exploitation exercises and vulnerability testing.
- Investigated user-reported phishing incidents, identified malicious attempts, and implemented effective countermeasures, improving email security protocols and boosting employee awareness.

Data Analyst Intern JULY 2022 – JULY 2023

Renault Nissan Technology & Business Centre India, Chennai, India

- Conducted data variance analysis and debugged SQL queries, ensuring 100% accuracy in extraction and leveraging Google Cloud for uploads and queries.
- Applied advanced data cleaning, normalization techniques, and data visualization using Tibco Spotfire and Python, achieving a 25% reduction in data processing time and optimizing data retrieval processes.
- Automated Excel data reloads and dashboard updates, eliminating manual interventions, reducing operational costs by 10%, and streamlining workflows through Google Cloud Platform integration.
- Designed customized dashboards and led a UI/UX framework project, earning leadership approval for implementation.

PROJECT EXPERIENCE

Hybrid Intrusion Detection System

- **Developed a hybrid IDS integrating NIDS and HIDS with machine learning models** like Random Forest, XGBoost, and Max Voting Ensemble.
- Achieved 96.8% binary accuracy and enhanced minority attack detection by 15% using SMOTE for class balancing.
- Leveraged CICIDS and NSL-KDD datasets to build a scalable system for detecting complex threats like DoS (97.1%) and SQL Injection (93.8%).
- Generated detailed documentation and reports to demonstrate the system's security, scalability, and performance for team evaluation and improvement.
- **Technologies Used:** Python, Random Forest, XGBoost, Gaussian Naive Bayes, Max Voting Ensemble, SMOTE, CICIDS, NSL-KDD, Docker, Flask, t-SNE, PCA.

Decentralized Voting System using Ethereum Blockchain

- **Developed a secure and transparent voting system** using Ethereum blockchain and Solidity smart contracts, improving election transparency and reducing tampering risks.
- **Implemented decentralized voting logic**, real-time vote counting, and an admin panel, ensuring tamper- proof voting with blockchain-based vote recording.
- Integrated MetaMask for blockchain transactions and utilized JWT for secure authentication.
- **Technologies Used:** Ethereum, Solidity, MetaMask, JWT, JavaScript, React, Node.js, IPFS

DoS (Denial of Service) Attack Detection and Mitigation Tool

- **Developed a DoS detection tool** that monitors network traffic, identifying abnormal spikes indicative of attacks.
- **Developed a comprehensive real-time notification framework** tailored for novice users that simplified incident management; the system was adopted by over 25 users, resulting in a 30% increase in overall team responsiveness.
- **Integrated basic mitigation features**, including rate-limiting and source blocking, to reduce the impact of detected attacks.
- **Technologies Used:** Wireshark, Tcpdump, Python, Flask, Scapy, SQLite, Dock

EDUCATION

Illinois Institute of Technology, Chicago, IL — Expected Graduation May 2025

Master of Applied Science, Cyber Security - CGPA: 3.34/4.0

- **Relevant Coursework:** Advanced Computer Security (intrusion detection, penetration testing), Ethical Hacking, System and Network Security, Machine Learning, Data Privacy, Software Project Management.

Anna University, Tamil nadu, India — May 2023

Bachelor of Engineering, Computer Science - CGPA : 8.67/10.0

- **Relevant Coursework:** Python, C , Javascript, Artificial Intelligence, Operating System.

HONORS AND ACHIEVEMENTS

- **Top 70: CyberQuest US Cyber Challenge**, 2024 (out of 3,500 participants)
- **Top 300:** National Cyber League 2024; gained expertise in Network Traffic Analysis, Digital Forensics, Cryptography, Password Cracking, Log Analysis, Scanning & Reconnaissance, Web Application Exploitation, and OSINT.
- **Volunteer:** GCSI (Global Cybersecurity Initiative) 2024, contributing to discussions on cutting-edge cybersecurity practices.
- **Publication:** "Deep Fake Voice Synthesizer (Voice Cloning)," IJARSCT, Volume 3, Issue 3, May 2023
- **National Winner:** Flipkart Grid 3.0 Hackathon (Robotics), 2022
- **Finalist:** Smart India Hackathon, 2022
- **Chess Champion:** Zonal Championship Winner 2022
- **Mentorship**: Guided university students pursuing careers in cybersecurity.
- **Active Participant**: Engaged in cybersecurity forums and hackathons to stay updated with industry trends.