

# ARVIND SAI DOODA

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## WORK EXPERIENCE

**Cybersecurity Analyst Virtual Intern, TCS Forage** Jul 2024 – Aug 2024

- Designed an IAM plan to streamline user access and secure onboarding/offboarding.
- Built Splunk dashboards for simulated threat monitoring, reducing response time by 30%.
- Conducted security audits and applied cryptographic protocols, improving security posture by 20%.

**Cyber Security Intern, Excelerate** May 2023 – Jul 2023

- Monitored network traffic and security logs using Splunk Enterprise Security and Wireshark, identifying anomalies and potential threats.
- Investigated phishing and ran vulnerability scans using OpenVAS and Nmap, enhancing detection accuracy by 15%.
- Automated tasks with Python, documented incidents, and configured firewalls to enhance data security.

**Cybersecurity Analyst (Graduate Engineer Trainee), Renault Nissan Tech & Business Centre India** July 2022 – June 2023

- Monitored network traffic using SIEM tools (Splunk, QRadar) and analysis tools (Suricata, tcpdump), identifying and mitigating security threats and IoCs, leading to a 30% improvement in incident detection time.
- Executed SQL queries on MariaDB to retrieve and analyze login activity, focusing on failed login attempts and after-hours activity, improving threat detection by 20%.
- Utilized Splunk and Chronicle to analyze logs, streamlining escalation and reducing response time by 15%.
- Applied vulnerability management techniques, including CVE lists and the Defense-in-Depth model, prioritizing and resolving critical vulnerabilities to mitigate security risks by 25%.
- Conducted incident response using playbooks, chain of custody documentation, and multi-factor authentication (MFA), reducing the risk of unauthorized access by 40%.
- Tested and strengthened password policies using tools like John the Ripper and Hashcat, identifying and addressing vulnerabilities, resulting in a 30% increase in password security.
- Collaborated with global teams to ensure compliance with NIST and ISO 27001 frameworks, contributing to cloud security improvements and achieving 100% compliance during annual audits.

**Cyber Security & Digital Forensics Intern, Gurugram Cyber Cell** Jun 2021 – Jul 2021

- Investigated cybercrime cases using Autopsy and Python for forensic analysis.
- Analyzed TCP/UDP traffic with Wireshark and supported incident response via SIEM alerts.
- Automated forensic data extraction and log analysis using Python scripts, improving investigation time by 15%.

## EDUCATION

**ILLINOIS INSTITUTE OF TECHNOLOGY** Aug 2023 – May 2025

**Master of Applied Science (M.A.S), Cybersecurity Engineering, Chicago, IL**

**ANNA UNIVERSITY** May 2019 – May 2023

**Bachelor of Engineering, Computer Science, Tamil Nadu, India**

## SKILLS

### Extensive Experience – Expert

Python • Java • Shell Scripting • Bash • SQL • Git • NodeJS • ReactJS • HTML • CSS • Splunk • QRadar • Chronicle SIEM • Wireshark • Burp Suite • Nmap • Metasploit • Suricata • tcpdump • Penetration Testing • Vulnerability Assessment • CVE Triaging • IAM • Terraform • AWS • Google Cloud Platform (GCP) • OWASP Top 10 • Cloud Security • HIPAA

### Moderate Experience – Skilled

Windows Server • Linux Administration • Docker • VMware • CrowdStrike • Reverse Engineering • OpenVAS • Threat Intelligence • TCP/IP • RPA (IAutomate, UIPath) • NIST 800-53 • ISO 27001 • CloudTrail • GuardDuty • MITRE ATT&CK

## PROJECTS

For a complete and more readable list of projects, as well as a demonstration of web development experience, please see my website at <https://arvind.netlify/projects> and my GitHub <https://github.com/Arvindsai>. The site was developed using **React.js**, **JavaScript**, **HTML/CSS**, and deployed via **Netlify**, with features like interactive sliders, email integration, and responsive design.

Hybrid Intrusion Detection System using Machine learning | **College Project** Oct 2024 – Dec 2024

- Built a hybrid IDS combining **NIDS** and **HIDS**, capable of detecting DoS (97.1% accuracy) and SQL Injection (93.8% accuracy) attacks.
- Applied **SMOTE** to address data imbalance, improving binary classification accuracy to 96.8% and boosting minority class detection by 15%.
- Implemented ML models including **Random Forest**, **XGBoost**, and **Max Voting Ensemble** to adapt to evolving threats.
- Documented technical reports and performance evaluations for system scalability, detection metrics, and continuous improvement.

Decentralized Voting System using Ethereum Blockchain | **Personal Project** Dec 2023 – April 2024

- Developed a secure voting system on the Ethereum blockchain using **Solidity smart contracts** to ensure transparency and tamper resistance.
- Designed core voting logic with real-time vote tallying and a secure admin panel for election management.
- Integrated **MetaMask** for user interaction and **JWT** for secure authentication and authorization.

Central Monitoring and Navigation System for Robots | **Flipkart Grid 3.0 Hackathon** Aug 2021 – Feb 2022

- Engineered a comprehensive **monitoring system** that tracked robot positions with an accuracy of less than 2 cm, utilizing real-time camera feeds and **Python-based socket communication** for immediate data transmission.
- Built robots using **NodeMCU ESP8266**, servo motors, and encoders for precise motion and task coordination.
- Achieved **1st place among 9,500+ teams** in a national hackathon by optimizing robotic performance in relay and sortation tasks.

## CERTIFICATIONS

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| ● CompTIA Security+ (CompTIA)                      | ● Google Cyber Security Professional Certificate (Google) |
| ● Cisco CyberOps Associate (Cisco)                 | ● Practical Ethical Hacking (TCM Security)                |
| ● ISO/IEC 27001 Information Security Certification | ● HIPAA Compliance (Leap of faith)                        |
| ● Cloud Security (EC- Council)                     | ● CCNA (Cisco)  |

## EXTRACURRICULARS

### Capture the Flag (CTF)

- Ranked **228th globally in Reply Hack the Code 2025 CTF** (Web, Crypto, Misc). | [Link](#)
- **70th Rank out of 3.5K Participants** in CyberQuest US Cyber Challenge 2024 | [Link](#)
- **Top 300** in the National Cyber League (NCL) 2024 Individual Competition, showcasing expertise in **Forensics, Binary Exploitation, Web Exploitation, OSINT, Cryptography, Password Cracking, and Log Analysis**.

### Volunteering

- Global Cyber Security Initiative (GCSI) 2024

### Hackathons & Jams

- **1st place National Winner**, Flipkart Grid 3.0 Hackathon 2022 (Robotics) - Developed a Central Monitoring and Navigation System for Robots, competing against 9,549 teams across India. | [Link](#)
- **3rd Place, Inno hacks 2022** (National Hackathon): Developed AI voice cloning software to replicate human voice, competing against 2,526 teams in India.
- Finalist, Smart India Hackathon 2022: **Developed a VR application for pilgrims**, enhancing their experience through the app.

**Publication** - “[Deep Fake Voice Synthesizer \(Voice Cloning\)](#),” IJAR SCT, Volume 3, Issue 3, May 2023