

VIJAYAMURUGAN SARAVANAN

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SUMMARY

Results-driven cybersecurity professional with hands-on experience in digital forensics, penetration testing, and cybersecurity audits. Certified in (ISC)² **Certified in Cybersecurity (CC)**, **TestOut Cyber Defense Pro** and **Google Cybersecurity**. Proficient in secure network design, incident response, and risk assessment using industry-standard tools such as Wireshark, FTK Imager, SIEM, Chronicle, Kali Linux, and Metasploit. Experienced in IAM design, vulnerability triage, encryption and security awareness training. Adept at implementing NIST-compliant policies and securing digital environments through access control, incident response, and analytical problem-solving.

SKILLS

Cybersecurity Tools: FTK Imager, Paraben E3, Autopsy, StegExpose, OpenPuff, S-Tools, Xiao Applications, DiskDigger, Wireshark, Metasploit, SIEM, Burp Suite, Kali Linux

Programming Languages: Python (Intermediate), Java (Intermediate), JavaScript (Intermediate), SQL (Intermediate), Bash (Beginner), Linux, HTML, CSS

Security Frameworks: NIST, OWASP, Access Control, Security Operations & Monitoring

Other Technical Skills: Digital Forensics, Incident Response, Risk Management, Cryptography, Vulnerability Triage, Security Advisory, Machine Learning, Data Analysis, Technical Security Awareness, Solution Design, Communication, Cloud Applications, Full-Stack Development, IAM Design & Evaluation, IAM Fundamentals, Network Security, VPN, VLAN, Secure Network Architecture.

PROJECT EXPERIENCE

Digital Forensics Investigation and Incident Response

- Investigated unauthorized data breaches using forensic tools, analyzing memory dumps and disk images. Developed a NIST-based Incident Response Plan and proposed remediation strategies to prevent future security incidents.
- Tools:** FTK, EnCase, Wireshark, Autopsy, NIST standards, metadata analysis, technical documentation.

Comprehensive Penetration Testing on Windows Server

- Conducted security testing on a Windows Server 2019 environment, identifying misconfigurations and privilege escalation vulnerabilities. Provided mitigation strategies for enhanced security.
- Tools:** Kali Linux, Nmap, Nikto, Metasploit, smbclient, Windows Command-line utilities.

Cybersecurity Audit of Institutional Policies

- Evaluated institutional cybersecurity policies against NIST SP 800-171A standards, identifying gaps in implementation and recommending improvements in risk management, compliance, and testing protocols.
- Tools:** NIST SP 800-171A compliance standards, gap analysis, technical documentation, policy evaluation.

Network Infrastructure Design for Multi-Location Business

- Designed a secure VPN-based network for a multi-location business, implementing VLANs, firewall configurations, and redundancy solutions to ensure seamless connectivity and fault tolerance.
- **Tools:** Ubiquiti EdgeRouter, VLAN, Active Directory, TCO Analysis.

CYBERSECURITY TRAINING

AIG Shields Up: Cybersecurity virtual experience program on Forage - February 2025

- Completed a cybersecurity threat analysis simulation for the Cyber Defense Unit, staying updated on CISA publications. Researched and understood reported vulnerabilities, showcasing analytical skills in cybersecurity.
- Drafted a clear and concise email to guide teams on vulnerability remediation.
- Utilized Python skills to write a script for ethical hacking, avoiding ransom payments by bruteforcing decryption keys. <https://t.ly/ScIzK>

Tata Cybersecurity Security Analyst Job Simulation on Forage - February 2025

- Completed a job simulation involving identity and access management (IAM) for Tata Consultancy Services, collaborating with a Cybersecurity Consulting team.
- Acquired expertise in IAM principles, cybersecurity best practices, and strategic alignment with business objectives. Delivered comprehensive documentation and presentations, showcasing the ability to communicate complex technical concepts effectively. <https://t.ly/GXAmT>

Mastercard Cybersecurity virtual experience program on Forage - February 2025

- Completed a job simulation where I served as an analyst on Mastercard's Security Awareness Team
- Helped identify and report security threats such as phishing. Analyzed and identified which areas of the business needed more robust security training and implemented training courses and procedures for those teams <https://t.ly/wmOqR>

CERTIFICATIONS

- **ISC2 CERTIFIED IN CYBERSECURITY (CC)**
- **TESTOUT CYBER DEFENSE PRO** - Credential ID - 6-1C6-VM58HE - <https://t.ly/oKjy1>
- **GOOGLE CYBERSECURITY CERTIFICATE** - <https://t.ly/EzKu3>

EDUCATION

- **Masters in Cyber Forensics and Security**
Illinois Institute of Technology, Chicago, IL
- **Bachelor of Engineering, Computer Science and Engineering**
Anna University, Chennai, TN, India