

# VIJAYAMURUGAN SARAVANAN

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## SUMMARY

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Results-driven cybersecurity professional with hands-on experience in digital forensics, penetration testing, and cybersecurity audits. Certified in (ISC) 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.

## RELEVANT EXPERIENCE

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### AIG Shields Up: Cybersecurity Virtual Experience Program

February 2025

- Completed a cybersecurity threat analysis simulation for the Cyber Defense Unit, analyzing and assessing over 50 real-world vulnerabilities from CISA publications to stay updated on emerging threats
- Researched and evaluated high-risk vulnerabilities, demonstrating strong analytical skills in cybersecurity by discovering potential exploits and proposing mitigation strategies
- 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/ScI2K>

### Mastercard Cybersecurity Virtual Experience Program

February 2025

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

### Tata Cybersecurity Security Analyst Job Simulation

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 ability to communicate complex technical concepts <https://t.ly/GXAmT>

## PROJECTS

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### Comprehensive Penetration Testing On Windows Server

November 2024

- Conducted a penetration test on a Windows Server 2019 environment, identifying misconfigurations and privilege escalation vulnerabilities, and provided mitigation strategies for enhanced security.
- Exploited weak password credentials, anonymous FTP access, and improper access controls using tools like Kali Linux, Nmap, Nikto, and Metasploit.
- Delivered a detailed security assessment report outlining vulnerabilities, risk impact, and remediation steps to strengthen server security posture.

## Cybersecurity Audit Of Institutional Policies

July 2024

- Evaluated institutional cybersecurity policies against NIST SP 800-171A standards, identifying gaps in implementation and recommending improvements in risk management, compliance, and testing protocols
- Conducted a comprehensive cybersecurity audit of Illinois Institute of Technology's policies for NIST SP 800-171A Rev. 3 compliance and performed a detailed gap analysis to identify security deficiencies
- Developed actionable recommendations and created technical documentation to enhance policy alignment with NIST SP 800-171A standards.

## Digital Forensics Investigation And Incident Response

March 2024

- 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
- Utilized FTK, EnCase, Wireshark, and Autopsy to conduct forensic investigations, review metadata, and extract digital evidence. Applied NIST standards to ensure compliance and created technical documentation detailing findings and remediation strategies

## Network Infrastructure Design For Multi-Location Business

March 2024

- Designed and implemented a secure network architecture for a multi-location business, incorporating VPN, VLAN segmentation, and firewall configurations to ensure secure inter-site communication.
- Established redundancy solutions with dual ISP connections and BGP routing, improving network resilience and fault tolerance.
- Created a comprehensive network security plan, including Active Directory integration and access control policies, to enhance security and operational efficiency.

## SKILLS

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**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

## CERTIFICATIONS

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- TESTOUT CYBER DEFENSE PRO - Credential ID - 6-1C6-VM58HE - <https://t.ly/oKjy1>
- GOOGLE CYBERSECURITY CERTIFICATE - <https://t.ly/EzKu3>
- ISC2 Certified in Cybersecurity
- COMPTIA SECURITY+

## EDUCATION

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Illinois Institute of Technology, Chicago, IL

Expected May 2025

**Masters in Cyber Forensics and Security**

Anna University, Chennai, TN, India

August 2019 - July 2023

**Bachelor of Engineering, Computer Science and Engineering**