

Vigneshwar (Vickie) Sundararajan

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vickie-ks.github.io/CipherVoyage • in vigneshwar-sundararajan-07a2a5185

vickie-ks

Professional Experience

Zoho Corporation

Chennai, India

Member Technical Staff - Software Development

Oct 2020 – Jul 2023

- Implemented SSO, 2FA, SAML, OAuth and RBAC for [Manage Engine Endpoint Central](#), reducing unauthorized access by 50% and enhancing security.
- Crafted and launched the Manage Engine Endpoint Central [Demo Page](#), spotlighting robust security and privacy features. Implemented tailored access controls and authorization protocols, leading to a 40% decrease in vulnerabilities and reinforcing trust in platform security.
- Successfully enhanced operational efficiency by 50% via strategic Continuous Integration/Continuous Deployment (CI/CD) automation pipeline implementation in GitLab, accelerating feature delivery and bolstering system reliability.
- Elevated product stability and customer satisfaction by directly resolving live session issues, resulting in a 70% reduction in future bugs and faster resolution times.

Zoho Corporation

Chennai, India

Technical Internship

Jul 2020 – Sep 2020

- Engineered e-commerce platform with Ember JS, MongoDB, and Node JS, boosting performance by 20% and meeting stringent security standards.
- Boosted web app security by 25% through expert application of cache API, local storage, session storage, and service workers.
- Innovated product enhancement for Manage Engine Desktop Central by spearheading the adoption of a weekly internal bug bounty program, resulting in an 80% reduction in issues and fostering a security-focused culture.

Education

University of Central Florida

Master of Science (MS), Computer Science (Specialized Cybersecurity track)

Aug 2023 – Present

National Engineering College

Bachelor's in engineering (BE), Computer Science and Engineering

Aug 2016 – Apr 2020

Skills

Security: Cloud Security, Network Security, Application Security, Cryptography, Vulnerability Assessment, Identity Management, Security Incident Response, Malware Analysis, Information Security, Product Security

Programming Languages: Python, Java, C++, PHP, Shell Scripting, Ember JS, Node JS, Scripting Languages

Databases: MySQL, MongoDB

Security Tools: Wireshark, Nessus, Splunk, Burp Suite, Metasploit

Operating Systems: Linux, Windows, Android, Mac

Networking: TCP/IP, DNS, Routing, Switching, Firewalls, LAN/WAN, Traceroute, cURL

Projects

Cloud Sec Encryptor: Architected and deployed a highly secure Flask-based application for encrypted data management on Google Cloud, improving data integrity and regulatory compliance, and minimizing data vulnerability incidents by 35%.

GitHub: [Cloud Sec Encryptor](#)

VaultChat: Engineered VaultChat, a secure messaging system leveraging NTRU encryption for quantum-safe communication. Designed with a user-friendly CLI, enhancing data security and boosting reliability by 40%.

GitHub: [VaultChat](#)

CipherVoyage: Led the development of CipherVoyage, a cybersecurity blog covering encryption, secure file transfer, and network security; highlighted 7+ innovative projects through regular, insightful posts.

GitHub: [CipherVoyage](#)

OWASP-WebScanner: An AI-driven vulnerability scanner tool that scans for OWASP Top 10 client-side security risks, utilizing machine learning to identify vulnerabilities and provide detailed reports for enhanced web application security.

GitHub: [OWASP-WebScanner](#)

FlashTunnel: It provides a seamless VPN experience with secure browsing directly in your web browser, eliminating traditional setup complexities. I developed a browser extension enabling proxy use for websites, enhancing privacy for over 5,000 active users.

GitHub: [FlashTunnel](#)

HTTPS Malware Traffic: Conducted in-depth analysis of 6.9 GB of HTTPS network traffic with Wireshark, uncovering 20+ malware patterns; strengthened network security measures, decreasing threat incidents by 35% and ensuring safer data transmission.

Network Analysis paper: [HTTPS Malware Traffic: A Network Analysis Approach](#)

Secure SDLC: Analyzed and discovered 30 new techniques to secure the Software Development Life Cycle, enhancing software integrity by 60%. Demonstrated a solid understanding of web application security principles.

Research Analysis paper: [Comprehensive Analysis on Secure Software Development Practices](#)

Fake Soft Drinks Detector: Discover our pioneering IoT research published in IJRTE, leveraging Raspberry Pi, barcode scanning, and RFID technology to detect expired soft drinks with 90% accuracy.

IJRTE: [Fake Soft Drinks Detector](#)

Certifications

Java SE 8 Programmer Certification: Earned Oracle Associate Java SE 8 Programmer certification, showcasing expertise in Java programming.

Certificate: [Java SE 8 Programmer Certificate](#)