

# Vigneshwar (Vickie) Sundararajan

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vickie-ks

## Professional Experience

### Zoho Corporation

Chennai, India

Member Technical Staff - Software Development

Oct 2020 – Jul 2023

- Implemented Login page with 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

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

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