

VIGNESHWAR SUNDARARAJAN

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PROFESSIONAL EXPERIENCE

ZOHO CORPORATION

Chennai, India

Member Technical Staff - Software Development

Oct 2020 – Jul 2023

Redesigned all login modules for ME Endpoint Central, enhancing user experience and security. Led the design and development of demo pages for all ME products, improving customer engagement and showcasing features effectively. Regularly developed new features and provided direct customer support through calls, consistently receiving positive feedback.

- 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 Intern

Jul 2020 – Sep 2020

First hire for the Front-End technical team; successfully developed a fully functional E-Commerce website, leading both front-end and back-end development, including database implementation. Spearheaded the automation testing framework for client-side applications across all ME products, enhancing code quality and reducing manual testing time by 40%.

- 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
- Innovative 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

Aug 2023 – Present

Master of Science (MS), Computer Science (Specialized in Cybersecurity and Privacy)

NATIONAL ENGINEERING COLLEGE

Aug 2016 – May 2020

Bachelor of Engineering (BE), Computer Science and Engineering

SKILLS

- **Security:** Cloud Security, Network Security, Application Security, Cryptography, Vulnerability Assessment, Identity Management, Security Incident Response, Malware Analysis, Information Security, Product Security
- **Technical Skills:** Python, Java, C++, PHP, Shell Scripting, Ember JS, Node JS, Scripting Languages, MySQL, MongoDB, Linux, Windows, Android, Mac
- **Security Tools:** Wireshark, Nessus, Splunk, Burp Suite, Metasploit
- **Networking:** TCP/IP, DNS, Routing, Switching, Firewalls, LAN/WAN, Traceroute, cURL

PROJECTS

- CloudSecEncryptor: 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: <https://github.com/vickie-ks/CloudSecEncryptor>
- 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
Personal Blog: <http://vickie-ks.github.io/CipherVoyage>
- 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: <https://github.com/vickie-ks/vaultchat>
- 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: <https://github.com/vickie-ks/owasp-webscanner>
- 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://vickie-ks.github.io/CipherVoyage/_pdf/https_traffic.pdf
- 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: https://vickie-ks.github.io/CipherVoyage/_pdf/Secure_Software_Lifecycle.pdf

ADDITIONAL INFORMATION

- Oracle Java Certification: Earned Oracle Associate Java SE 8 Programmer certification, showcasing expertise in Java programming
Certificate: https://vickie-ks.github.io/CipherVoyage/_certifications/oracle-certificate.pdf
- Hack@UCF Club Member: Participating in cybersecurity training, Capture The Flag (CTF) competitions, and collaborative security projects
- TryHackMe Achievements: Completed various Capture The Flag (CTF) challenges on TryHackMe, earning badges and advancing through levels, while regularly publishing detailed walkthroughs on a personal blog to share strategies and insights on cybersecurity challenges