Elavarasi Natarajan

+91-9445957280
viji.elavarasi@gmail.com

SUMMARY

Application Security personnel with close to 6 years of proven expertise in various fields of Cyber Security; Risk Assessment, Penetration Testing, web application security testing, governance and compliance.

CORE COMPETENCIES

- Web Application Security
- Source Composition Analysis (SCA)
- Penetration Testing
- Secure SDLC & Threat Modeling
- Python Scripting
- Secure Code Review
- Risk Assessment

PROFESSIONAL EXPERIENCE

COGNIZANT TECHNOLOGY SOLUTIONS, CHENNAI, INDIA
DAST, SAST, Automation – Cyber Security & Risk Assessment
Security Specialist, February 2018 – April 2020

- Performed both manual and tool-based Dynamic Application Security Testing (DAST) of all web-facing and internal applications
- Performed threat modeling based on high level architecture review of AWS and on-premise infrastructure
- Performed secure code review (SAST) of applications written in **JAVA, .net and PHP** for all critical and acquired applications to ensure compliance with company policies
- Supported developers to implement vulnerability remediation techniques and workarounds with minimal changes in code that did not deter performance.
- Involved in CyberSecurity research and remediation to incorporate org. wide code strengthening.
- Done Web services security testing of both SOAP and REST services
- Part of major enhancements in automation of security process using Jenkins
- Introduced Source Composition Analysis (SCA) to the existing corporate security review process with combined manual and open-sourced tools
- Received multiple Kudos from users for continual business support
- Performed Risk assessment based on policy controls for Oracle Database using CIS Benchmarks
- Supported the hardening process of existing Oracle Servers to meet the Industry Security Standards(CIS benchmarks)

INFOSYS LTD, CHENNAI, INDIA
Source composition Analysis, Application Penetration Testing and Secure Code Review
Senior Systems Engineer, November 2014 – January 2018

- Done Source Composition Analysis (SCA) of over 200 web facing applications for a large US finance client
- Involved in Secure SDLC planning and implementation using in-house tools
- Done Repository management of source stack used by the applications, both tool-based and manual
- Analyzed all zero-day vulnerabilities using data and RSS feeds to ensure compliance and whitelisting of all organization used software and tools
- Gained a thorough understanding of major open source software rendering repositories like Maven, NPM, Node etc.
- Integrated Major Open source repositories with developer application repositories (Github, Bitbucket) using Nexus
- Was part of the governance team for monitoring open source software usage of applications using Nexus
- Manual analysis of open source vulnerabilities using NVD- NIST, CVE Mitre and other major contributors.
- Part of risk management team that reported open source component vulnerabilities, corresponding severities and remediation
- Single-handedly reported a list of all affected applications during a major data breach caused by Struts vulnerability in Equifax
- Coordinated efficiently with all third-party vendors to bring out the best in the employed tools
- Responsible for all major upgrades made to the existing SCA process in the client
- Secure code review using HP Fortify for all web facing applications

Notable achievements
- Implemented a structure to securely handover opensource tools and software to developers that drastically reduced the wait time and enhanced performance.
- Single handedly analyzed major open source framework vulnerability that helped clean the organization repositories in a minimal timeframe.
- Supported the development team to remediate SAST issues by identifying key sink points to implement precise validating code blocks.

INFOSYS LTD, CHENNAI, INDIA
JAVA, DBMS & Software Engineering
Systems Engineer, July 2014 –November 2014

- Trained in Java J2EE
- Highly skilled hands-on experience in Java development using Eclipse IDE
- Developed small Java projects as part of the curriculum
- Hands-on development experience in Database Management

- Gained a good understanding of MySQL and related works
- Familiar with all the details of Software Engineering, lifecycles and SDLC
- Trained in Infrastructure Management, Server Administration of Linux and Solaris systems
- Familiar with **Python** and **Perl Scripting**

TOOLS

- **Vulnerability scanners** - Microfocus Fortify, WebInspect, IBM Appscan, Acunetix Web Vulnerability Scanner, Checkmarx
- **Interception Proxies** - Burp Professional, OWASP ZAP, Fiddler
- **Repository Management Tools** - Sonatype Nexus, Palamida Open Source Compliance, Jfrog, Git, Bitbucket
- **Network scanners** - Qualys Guard, Nmap, wireshark
- **Webservices Testing Tools** - SOAP UI, Postman
- **Kali Linux** – assorted PT tools
- **Threat modeling –** Microsoft Threat Modeling tool 2016, OWASP Threat Dragon

FAMILIAR INDUSTRY STANDARDS

- OWASP
- SANS
- CIS Benchmarks

EDUCATION

ANNA UNIVERSITY, CHENNAI
- **BACHELOR OF ENGINEERING, ELECTRICAL & ELECTRONICS ENGINEERING, APRIL 2014**
  - CGPA: 8.5/10

CERTIFICATIONS

- **CERTIFIED ETHICAL HACKER (CEH)**
  EC-council
- **HEALTH INFORMATION PORTABILITY AND ACCOUNTABILITY ACT (HIPAA)**
  Cybrary