Sandeep Alluru

MTS Application Security Engineer

Personal Info

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LinkedIn
https://www.linkedin.com/in/sandeep-alluru/

GitHub
https://sandeepalluru.github.io

Facebook
https://www.facebook.com/sandsodeep

Skills

Cryptography

Perl

Python

openssl

Wire Shark

Shell Scripting

authentication and security protocols

- Subject matter expert in cryptography, SSL/TLS, performance, scalability, and usability.
- Adept at providing simple solutions for complex problems.
- Expertise in Detection and remediation of vulnerabilities in their Software Development Life Cycle.
- Conducted formal incident investigations and handle advanced incident handling scenarios.
- Managed advanced persistent threats, anti-forensic techniques used by attackers, and complex digital forensic cases.
- Expertise in Code Assessments, OWASP Policies and Procedures, and Vulnerability Management.
- Expertise in packet analysis tools to effectively filter and rebuild data streams for analysis.
- Experience with tools and techniques required to analyze diverse protocols and data traversing a network environment.

Experience

Jul 2009 - present

MTS Application Security Engineer

Paypal Inc

Responsibilities:

- Managed the process to secure data at rest and data in transit for the Entire organization.
- Developed tools to generate and deploy crypto session resumption keys to improve ssl/tls performance for 90% of applications.
- Delivered Major project to migrate from Legacy cryptography process to web based cryptography management system
- Architected and Delivered the project to migrate from a self signed certificate certificate model to more secure CA based certificate model with strong encryption used to secure data in transit.
- Developed bot to Monitor and Report cryptography key meta data to manage expiration, revocation and renewal.
- Performed yearly Audits for PCI certification & internal audit
- Developed slack bot to integrate with watson api to provide developer self help chat experience
- Worked on malicious applications and network activity Detection
- Performed Analysis to detect Application, System and network vulnerabilities
- Conducted presentations on securing Injection, XSS and CSRF attacks
- Worked on bots to detect,report and perform self healing actions.

Sep 2007 - Jun 2008

Senior Software Engineer

Electronic Data Systems

- developed tools to process claims and generate reports
- developed automation to generate/modify security artifacts

May 2003 - Jun 2007

Software Engineer

Innovation Communication Systems

- Developed prototype for PDA application to report data during traffic stops for State Police
- Worked in Sunsolaris Environment to develop Digital Audio Recorder to record/analyse live phone/wireless audio signals
- Worked on Message Communication Software to communication via Satellite between Regional Police HQ across India
- Worked on prototype to convert wave signals to Text
- Worked on Frequency Division Multiplexing Signal Analyzer Software to View,Zoom/Plot Signals.

Education

Apr 1999 - Apr 2003	**Madras University** Bachelors of Technology in Information Technology
	ISC² SSCP Systems Security Certified Practioner