Pradeep Jairamani

Linkedin Profile: https://www.linkedin.com/in/pradeep-jairamani-167a1397/
Github Profile: https://github.com/pradeepjairamani

Professional Summary

- Information security consultant with the ability to protect systems from internal and external threats.
- Expertise in automation of Web and Network application penetration testing using Python.
- Developing and implementing SIEM (security information and event management) solution for organizations.
- Big data and Machine learning Enthusiast.

EDUCATIONAL QUALIFICATIONS

Year	Degree/Certificate	Institute/School
2018	B. Tech Computer Engineering	Poornima University, Jaipur
2014	XII (CBSE)	Defence Public School, Jaipur
2012	X (CBSE)	Defence Public School, Jaipur

Work Experience

OWASP Foundation   (Apr'18-Present)
Profile: Google Summer of Code Intern (GSoC 2k18)
Project URL: https://github.com/zdresearch/OWASP-Nettacker

Job Responsibilities
- Implementing service detection and migrating vulnerability assessment to service detection instead of port detection
- Implementing database for Non fuzzer based NVT's (Network Vulnerability Tests)
- Adding more data to vulnerability modules
- Implementing SSL vulnerabilities
- SPF (Sender Policy Framework) record Testing for mail servers
- Implementing nbtscan for information gathering
- Implementing Brute force modules for different services
- Improving Web User experience based on API
- Unit Testing for all the modules
- Code documentation

OWASP Foundation   (Mar'18-Present)
Profile: Project Coordinator
Project URL: https://github.com/zdresearch/OWASP-Nettacker

Job Responsibilities
- Python Development (FTP Vulnerabilities, CMS vulnerability detection and brute forcing, Password List Generator, Enhancing Language Library, HTTP/HTTPS vulnerabilities)
- Strategic management
- Project documentation for effective contributions
- Code documentation

Provensec LLC.   *(Aug'17-Present)*
Profile: Information Security Analyst and Python Developer

Job Responsibilities
- Finding vulnerabilities in network and web applications
- Lead Python developer in Provensec Network Scanner
- Lead Python developer in Internal scanner ISO
- Lead developer and strategist at SIEM-Pro

Nex-G Exuberant Solutions PVT LTD.   *(Nov'16-Jan'17)*
Big Data and Hadoop Intern

Job Responsibilities
- Setting up Hadoop and Zookeeper for the Infrastructure.
- Working on fetching data from HBase using Hive and Pig.
- Automating log sending to database using Flume and Scoop.
- Maintaining 100% uptime of the servers using Zookeeper.
- Working on Big data of stock market for Client.

PROJECTS

OWASP Nettacker   *(Mar'18 - Present)*
Automated Penetration Testing Framework

- Python Multi Thread & Multi Process Network Information Gathering Vulnerability Scanner
- Network Service Analysis
- Services Brute Force Testing
- Services Vulnerability Testing
- HTTP/HTTPS Crawling, Fuzzing, Information Gathering and …
- HTML, JSON and Text Outputs
- API & WebUI
- This project is at the moment in research and development phase and most of results/codes are not published yet.

CMS Striker   *(Apr'18 - Present)*
Automated Penetration testing and vulnerability Assessment for content management systems.

- Detecting the CMS from website.
- Dynamically finds plugins from the plugin directory after detecting CMS.
- Launches the scan and converts the output in Text/Json and XML format. (not yet implemented)
- Find exploits using searchsploit (not yet implemented)

Provensec Network Scanner   *(Jan'18 - Present)*

- Performs a Service and version detection of the client's machine.
- Finds exploits from MongoDB for particular service and version.
- Dynamically finds plugins from the plugin directory after fetching results from Database.
- Launches the scan and converts the output in Text/Json and XML format.

Internal Scanner ISO (Oct'17 - Jan'18)

- This project helps client with their Infrastructure Penetration Testing.
- Client downloads the Virtual Machine and installs it in their system.
- The companies infrastructure including Routers, Systems and other devices connected to the network will get automatically tested for vulnerabilities and the reports of that vulnerabilities will be shown in CloudProX (Provensec) to the Client.

Stock Market Analysis and Prediction (Oct'17 - Nov'17)

- Python GUI (WxPython) project which fetches stock data from Quandl and helps a marketing Analyst by:
- Storing the data in CSV format.
- Creating graphs using the fetched data
- Predicting new data using Linear Regression
- Setting Email alerts

Project Selected by Department of Science and Technology, Government of India for further Development

SIEM-Pro (Security Information and Event Management) (Aug'17 - Oct'17)

- SIEM-Pro is a product which works as a LIDS.(Log based Intrusion Detection System) It has the functionality of Log Management , Intrusion Detection, Intrusion Prevention.
- It is a system for 24/7 hours Protection for your Systems.
- It keeps all your assets Logs and Errors at one place So you can manage your assets easily.

Nmappy (Aug'17 - Aug'17)

- Automating Nmap Scripting Engine Scripts.
- Searching exploits using Nmap scan results.
- Finding difference in day-to-day scans and if any difference is found, a mail is send to the user automatically.
- Interactive NMAP scanning

Password List Generator (May'17 – May'17)

A Python script which creates a password list for brute force attacks according to the data entered by the user.

Python Website Vulnerability Scanner (Oct'16 – Oct'16)

This Project Focuses on testing website for vulnerabilities like SQL Injection & Local file inclusion.

All in one Converter (Sep'15 - Nov'15)

A GUI application which converts different quantities like Area, Length, Weight, Temperature and Currency; and also finds the latest stock market updates.

Malware Scanner (Jul'15 - Aug'15)

This Python script creates the file's SHA256 hash and searches it on virustotal.com's database which provides more than 50+ antivirus scan.

WORKSHOPS / HAND ON EXPERIENCES

- Microsoft certified professional on 31 Jan., 2014 (View)
- Professional Certification course on Wordpress.

TECHNICAL SKILLS

Programming	Python
Vulnerability Research	OWASP Testing guide for Web application vulnerabilities, Mobile application vulnerabilities and Network penetration testing
Additional skills	Buffer Overrun, Reverse Engineering, Exploit development and Machine Learning
Tools	Metasploit Framework, Nmap, Nessus, BurpSuite, Wireshark, SQLmap, OSSEC

Achievements

- CVE-2018-6890 WolfCMS
  https://github.com/pradeepjairamani/WolfCMS-XSS-POC

- CVE-2018-6905 Typo3CMS
  https://github.com/pradeepjairamani/TYPO3-XSS-POC

- Listed in:
  - Twitter Security Acknowledgment
  - Apple Security Acknowledgment
  - Microsoft Security Acknowledgment
  - Ebay Security Acknowledgment
  - Blackberry Security Acknowledgment
  - Telekom Security Acknowledgment
  - AT&T Security Acknowledgment
  - Adobe Security Acknowledgment
  - Nokia Security Acknowledgment

- Stock Market Analysis and Prediction got selected by Department of Science and Technology, Government of India. Link
- Organized seminar on Cyber Security with "Police and People Council" at various schools and colleges.
- Interview published in Hindustan Times on 3rd Dec 2012 regarding cyber awareness.
- Wrote a Document on 'Introduction to Backtrack Tools' Link

Personal Details:

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Date: 24-April-2018   **PRADEEP JAIRAMANI**