Shankarnarayana Damodaran | OSCP

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Objective

8 years of experience in the Information Technology & Information Security sector, open to extreme eccentric challenges.

Possess phenomenal expertize on penetration testing (red team) and secure coding practices.

Achievements

Appreciation from the President of India, Late Hon. Dr. A.P.J. Abdul Kalam on reporting security vulnerability in http://india.gov.in where an attacker could traverse and download any file of his/her choice from the portal as well as from the internal file system.

Certifications

Offensive Security Certified Professional (OSCP), August 2015 – Never Expires

Certified Ethical Hacker v8 (CEH), May 2015 – May 2018

Patents

Method to detect, warn, track, alert & prevent hackers simultaneously from websites instantly.

Patent Grant No: 263968 | Application No: 2357/CHE/2008

Patent Filed: 2008 | Patent Published: 2010 | Patent Granted: 2014

Publications

Konica Minolta FTP Utility 1.0 - Remote Denial-of-Service Attack (0 day)
https://www.exploit-db.com/exploits/37908/

Mock SMTP Server 1.0 - Remote Crash
https://www.exploit-db.com/exploits/37954/

Contributions

Trusted User of StackOverflow Community (More than 2000 answers given, approx. 50000 reputation. Top 4th Close Voters of All-Time)
http://stackoverflow.com/users/1003917/shankar-damodaran

Github
http://github.com/sh4nx0r

Technical Prowess

Information Security
Backtrack & Kali Linux, Metasploit, Burp Suite, IBM AppScan, JTR, Maltego, Ollydbg, Immunity Debugger, Acunetix, Wireshark, Crunch, Nexpose, Nessus, Phrasender, Hydra, Hashcat, Nikto, Sqlmap, dirb, wfuzz, wpscan, Dotdotpwn, Dradis, hping3, nmap, netcat, TCPDump, OpenVAS, Cenzic, enum4linux, SNMPCheck, httperf, gdb, Cain and Abel, L0phtcrack, w3af, medusa, n-crack etc.

Development
PHP, Python, Ruby, Apache Solr, Git, NewRelic, Nginx, Codeigniter, MySQL, JQuery, ReactPHP, Socket.io, Adobe Flex, Protocols (RTMP, RTMFP), Android, Adobe AIR, SQL Server 2008 R2, ASP.net C#.net, Perl, etc.

Education

2002 – 2007, College of Engineering, Guindy – Anna University, Chennai, Tamilnadu
- M.Sc. 5yr (Integrated) Information Technology – Course Completed

2001 – 2002, VMHS School, Chennai, Tamilnadu
- High School Secondary, PUC – Computer Science - 89%

Experience

May 2014 – Present, Twenty19
Chief Technology Officer (CTO), http://www.twenty19.com

Twenty19 is one of the first Indian portals that connects students and companies through internships virtually and also provides an online learning platform. As of 2015, the current student registrations were around 0.4 million and company registrations at 10.5K.

Steered the technical modules of the portal from server management to secure code development, followed by periodical penetration tests and vulnerability assessments. My responsibilities and roles include -

- Team management & highly responsible for getting tasks launched before deadline.
- Periodic penetration tests & vulnerability assessments as new features gets launched.
- Developed a multitude of new additions like search engine, notifications, live feeds, search engine optimizations, etc.
- Secure code review of the legacy codebase and remediation for the same.
- Drastically improved the performance of the portal in terms of faster load times by caching and query optimizations.

August 2011 – May 2014, Devcare Solutions
Technology Lead, http://www.devcare.com

DevCare Solutions helps customers enhance their investment in IT initiatives providing dedicated bandwidths to each of its specialized areas, viz., information security, software consulting, programming, analysis and design, system planning, application development, database administration, professional web design, application hosting, website creation, and network management.

Managed a team of people in leading and developing web and mobile applications that follows a secure code methodology.

- Remote security testing and penetration testing of the client websites.
- Reporting of vulnerabilities and remediation.
- Secure code development of 1-on-1 video conferencing module for both web and mobile / development of various features for the clients of the company.

September 2009 – July 2011, Attack Alert
Founder, https://www.signalhack.net/beta

Attack Alert (now SignalHack) is a real-time Intrusion Detection Service (IDS) that was built using the idea of my patent. This software was developed over the years and was rotated as a beta release to many websites during this period 2009 - 2011. SignalHack is still under development and in a beta-phase till date.

- Penetration testing was done prior to installation of SignalHack, as it is just an IDS.
- Software recognizes hacker attack patterns immediately and alerts the administrator of the website when an attacker is trying to break into the website.
- Uses Twilio SMS API to send short text messages to administrators of the attempts and hacker whereabouts.

August 2007 – March 2009, Dfianz Security, (SGS Technologie)
Director, http://www.netandhost.com

Netandhost, a part of the SGS Technologie which is India's most forward looking and most trusted business group having main markets in USA, UK, Europe and Asia. For over 25 years the SGS name has stood for Leadership with Trust and has been synonymous with excellence and ethical business practices which serve as the guiding principles for every enterprise within the group. The SGS Technologie and its subsidiaries continues to be amongst the pioneer movers in the emerging businesses and technologies.

Experience

Dfianz Security was started by SGS Technologie (max shares) and myself (minimum shares). It was a written contract between the two parties in development of an online security software that scans and reports some of the most important Open Web Application Security Project (OWASP) top 10 vulnerabilities.

- The software perfectly lists out SQLi in both forms and URL, XSS in both forms and URL, Sensitive files and directories, Enumerates users, etc.
- Also checks for directory traversal attacks, path disclosure, broken links and other factors.
- A separate internal panel was built such that all these findings gets automatically recorded as a report.
- The software was successfully completed, tested and submitted to SGS Technologie during March 2009.

January 2007 – May 2007, Larsen & Toubro Limited
Intern - Senior Programmer, http://www.larsentoubro.com

Larsen & Toubro Limited is one of the largest and most respected companies in India's private sector. With over 75 years of a strong, customer focused approach and a continuous quest for world-class quality, L&T has unmatched capabilities across Technology, Engineering, Construction and Manufacturing, and maintains a leadership in all its major lines of business.

As a senior programmer intern, helped in developing various software modules for the Human Resources department during the period of 6 months.

July 2005 – October 2005, Lucas-TVS Limited
Intern – Programmer, http://www.lucas-tvs.com

Lucas - TVS established in 1961 as a joint venture between Lucas UK and T V Sundram Iyengar & Sons (TVS), India to manufacture Automotive Electrical Systems. Lucas-TVS is the Leader in Auto Electricals in India today with 50 years of experience in design and manufacturing. 4 out of 5 vehicles rolled out daily are fitted with Lucas-TVS products.

Assisted the staff in development of query modules and optimizations. Also, worked in the internal project of the company "Change Management & Live Community" and submitted a thesis for the same.

December 2004, Bharat Sanchar Nigam Limited
Intern - Software Trainee, http://www.bsnl.co.in

Bharat Sanchar Nigam Limited (BSNL) is an Indian state-owned telecommunications company headquartered in New Delhi, India.

Served as a software-trainee on Management Information Services (MIS).

June 2004, Heavy Vehicles Factory, Defense Sector
Intern - Software Trainee, http://ofbindia.gov.in

HVF was set up in 1965 by the Ordnance Factories Board, Government of India to manufacture heavy battlefield equipment, including Vijayantas and T-72 tanks. Currently, HVF manufactures India's main battle tank Arjun and the T-90s.

Served as a software-trainee and worked on a thesis related to defense.

Declaration

I do hereby declare that the particulars of information and facts stated herein above are true, correct and complete to the best of my knowledge and belief.