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OSCP Certified - Feb'19

EXPERIENCE

Sept 2019–Current **VMware, MTS - Security.**
Working as a part of the Product security team at VMware, India. The objective of my job is to do security reviews of the VMware products starting from very initial stage which is **SSDLC** and also respond and verify the bugs/issue reported by external researcher on VMware products

August 2017–Sept 2019 **@Walmart Labs, Security Engineer - II.**
Working as a part of Security Testing and Analysis team at Walmart Labs India. Objective of my job is to do penetration testing on various developed applications for Walmart e-commerce platform. Also, Worked on various information security related projects in **InfoSec** team at Walmart Labs IDC

Highlight:

1. **Patent Filed:** System and Method of Identifying Malware Compromises in Computing Device
2. **AOM award for October-2018**
3. **SPOT award**

June–July 2017 **Cyber Security Lab, IIT Kanpur, Project Employee.**
Worked on finding various vulnerabilities in SCADA control system protocols

EDUCATION

2015–2017 **Indian Institute of Technology, Kanpur, CPI - 7.71/10.**
M.Tech Computer Science & Engineering
System Security Specialization
Award : Best Innovative Project, 2017

2010–2014 **Charusat University, Gujarat, CPI - 8.73/10.**
B.Tech Computer Science & Engineering

TALKS/CONFERENCES

Oct-2019 **Lascon X - OWASP Conference, Austin, Texas.**
May-2019 **DefCon MeetUp 0x03, Trivandrum.**
Sept-2018 **DefCon MeetUp 0x02, Trivandrum.**

CERTIFICATION

Feb-2019 **Offensive Security Certified Professional (OSCP).**

INTERNSHIP

- June–August 2016 **SAMSUNG Research & Development Institute, Delhi**, (Team of Two).
Implemented **Client Honeypot** and Honeypot Server under Security Team SRI-Delhi.
Presented a idea of modifying Client Honeypot to integrate it with Tizen TV Kernel, in order to create a sandboxed environment for browser. That is useful for browser to classify a particular website as malicious or benign.
The Client Honeypot was capable enough of identifying malwares that tries to access or modify file system or process tree of underlying operating system.
The Server Honeypot could successfully able to log all the activities of attacker, logged on to virtual ssh port.
- January–May 2014 **Charusat Space Technology Center (Collaborated with ISRO), Ahmedabad**, (team of two).
Guide: **Dr. S.P.Kosta (Former Group Director ISRO-Bangalore, Chief Scientist at CSTC)**
Implemented a payload called “Wireless Sensor Network” for **IMS1A** satellite. Configured and programmed a ZigBee devices for communicating with all sensors available in satellite wirelessly to transfer control signals received from earth.

RESEARCH

- January **Honeypots for IITK, M.Tech Thesis.**
- 2016–May 2017 Worked with **Dr.Sandeep Shukla** to build an intelligent research **Honeypot for IIT Kanpur** Application and Web-hosting servers. Also the major idea was of securing Honeypots in order to make it undetectable by Advance Attackers. With the use of these honeypots, we collected various malware related to variety of services which helped us to analyze the pattern of attacks happens everyday on the internet.

PROJECTS

- October 2018–Sept 2019 **Framework for finding Kubernetes security mis-configurations**, *Org Project*, Walmart.
This project aimed to check and identify the security mis-configurations in any kubernetes cluster. It checks compliance of master-worker nodes using **CIS benchmark for Kubernetes**, Image analysis using **Anchore**, POD and Container mis-configurations and lastly run-time analysis using **Sysdig Falco**.
- Feb–October 2018 **Content Security Policy**, *Org Project*, Walmart.
Content Security Policy (CSP) is a computer security standard introduced to prevent cross-site scripting (XSS), clickjacking and other code injection attacks resulting from execution of malicious content in the trusted web page context.
This project aimed to develop CSP environment, including backend and header injection as part of security measures.
- August 2017–Feb 2018 **File Integrity Monitor**, *Org Project*, Walmart.
File integrity monitoring (FIM) is an internal control or process that performs the act of validating the integrity of operating system and application software files using a verification method between the current file state and a known, good baseline.
This project aimed to implement file monitoring system across Walmart environment network as part of security concerns.

AWARDS & ACHIEVEMENTS

- Oct–2018 Received AOM(Associate of the Month) award for my exception contribution in the month of October to the InfoSec team of the Walmart.
- 2017 Received prize money award of **₹12,500** from SIDBI Incubation Center for **Innovative Project** across all branches.
- 2017 Received **Best Innovative Project Award** amongst Graduating Students, 2017, across all branches of IITK, for the M.Tech Thesis project..

- 2017 Received Honorarium from [Dr. Rajat Mittal, ACA Head](#), IITK for effective teaching for the course titled **“System Security And Exploitation Techniques”** in [Summer School, 2017](#).
- 2015 **AIR 476** in GATE for Computer Science.
- 2013 University **Second Rank** in 2nd year B.Tech.
- 2010 School **Merit Scholarship** for being in top in X grade.

EXTRA-CURRICULAR

- 2016 **EasyChair** Reviewer for a paper based on IDS of conference **ICISS 2016**.
- 2014–2015 More than 10 ZigBee and network related projects on freelancing website.
- 2014 **EventManager** at National level Techfest Cognizant 2014, CHARUSAT.

POSITION OF RESPONSIBILITY

- October 2017 **CTF Contest**, *@Walmart Labs*.
& 2018 One of the member of the team of two who were responsible for organizing a Security CTF contest across the entire **@WalmartLabs** on Security Awareness Month.
- May–June **Summer Mentor-ship**, *IIT Kanpur*.
2017 Mentored one internship projects under the guidance of [Dr.Sandeep Shukla](#)
 - Secure SMTP: PGP integrated implementation of SMTP with kerberos Authentication server.
- May 2017 **Instructor of “System Security and Exploitation Techniques” Course**, *IIT Kanpur*.
Nominated by CSE Dept as one of the three Instructors for the course.
Managed a class of around 30 students with regular assignments, quizzes and lab sessions. Awarded Honorarium for the same.
- May 2016 **Instructor of “Introduction to C/C++” Course**, *IIT Kanpur*.
Nominated by CSE Dept as one of the two Instructors for the course.
Managed a class of around 40 students with regular assignments, quizzes and lab sessions.
- 2016–2017 **Coordinator ACA**, *IIT Kanpur*.
One of the two coordinators amongst PG-Y15 batch. Instrumental role in organization of ACA summer School-2016 and Freshers for Y16.
- 2016–2017 **Coordinator INFOSEC(System Security Group)**, *IIT Kanpur*.
Organized System Security related lectures, workshops and CTF for IITK junta.
Organized “Crypto” event in Takneek-2016.

COMPUTER SKILLS

- Security Web Security, Penetration testing and Buffer Overflows
- Over 10K line C/C++, Chef, Python, Go
- Over 2K line Java, Ruby
- Familiar JavaScript, PHP, MySQL, SHELL, MatLab, Embedded(Arduino) Programming, \LaTeX , Docker, React