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A REPORT ON
EDU-TALK: SHADOWSEC

Date: 16th August, 2023
Venue: Apple Lab, Silver Oak University

Introduction:

Silver Oak University IEEE Student Branch organised a member exclusive "Edu-Talk-ShadowSec", which was aimed at providing an overview to cyber security and ethical hacking. It was to help refine knowledge against cyber threats and unlock secrets on hacking. The session was conducted to provide members a comprehensive overview of the world of hacking and its ingenious defence mechanisms.

About the Speaker:

Mr. Jeel Vekariya, a distinguished speaker and current Computer Science Engineering, Cyber security, student at Silver Oak University, led the session. Additionally, he serves as the Treasurer, Silver Oak University IEEE Student Branch.

About the Session:

Date: 16th August, 2023
Time: 02:00 PM - 03:45 PM
Venue: Apple Lab, B-Block, Silver Oak University
Participants: 40

The session was initiated by Mr. Jeel Vekariya introducing the concept of cyber security and practice of protecting data virtually. He showcased some examples of recent cyber-attacks.

He delved into the intricate landscape of cybersecurity, shedding light on prevalent threats. He discussed SQL injection, a sinister technique that manipulates an application's database queries. He touched on the disruption caused by DOS attacks, rendering devices inaccessible to their users. Further, he explained the cunning nature of MITM attacks, where attackers covertly intercept communications between unsuspecting parties.

He also explained different types of malwares like spyware, adware, botnets, trojans, worms and how they work. The interactive and captivating live demonstration conducted by him on Phishing and Price manipulation attracted more participation from the audience and the session got more interesting.

He explained what phishing was and how the stolen data from it is utilized and sold on other platforms. And then he showcased live examples of Phishing on a famous site and how similar was the database and format of the real and the fake websites. He explained how the tools work and how hackers use such softwares to extract data. He continued the practical of cyber attacks by explaining Price manipulation and showcasing it on a less secure website. How the price of particular products could be changed by using some tools like intercept etc.
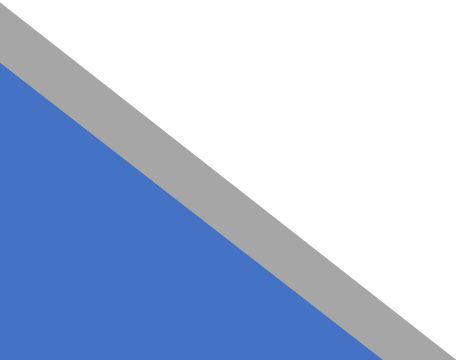
He continued to explain such examples and methods used these days to extract information and for price manipulation and also mentioned some technologies that are used for all these tasks.

He briefed the audience about vulnerabilities in the websites and how we need to protect our data and be cautious of such online cyber-attacks. And he concluded the session by giving the audience some research topics such as silent JPG exploit, Alfa shell and RDP, and he conducted a small Q&A session in the end which reflected how interesting the session had been for audience.

Conclusion:

In conclusion, "SHADOWSEC-EDUTALK" was an engaging, informative and interactive session about cyber security and different methods used for hacking under it. And how important it is with more advancement of technology in our day to day lives and how we can stay protected from all such attacks and threats.

This wouldn't have been possible without Dr.   Satvik Khara Sir, Dean, Diploma Engineering, Silver Oak University; Head, Department of Computer Engineering, SOCET; Senior Member IEEE; Founding Member, Silver Oak University IEEE Student Branch; Chairperson, SIGHT, IEEE Gujarat Section; and Secretary, Computer Society, IEEE Gujarat Section; for providing us with his constant support and guidance in structuring the united establishment of IEEE SOU SB.

Some glimpses of the event:

Introducing participants to Cyber Security

Getting started with hacking basics

Hands-on workshop for phishing

Extracting information for price manipulation