

Report - Webinar on “Cyber Security Skillset for Engineers”

Date: 26th September 2020

The Dept of CSE in collaboration with NCSST has organized a Webinar on “Cyber Security Skillset for Engineers” for the students and faculty on 26th September 2020.

Nowadays, with the rising popularity of cyber connectivity and worldwide interlinking, the evil has also evolved in the form of breach of cyber security. It is a virtual world we have created and we have to be well prepared to protect and sustain our virtual world from the virtual invaders. In view of the recent developments, awareness about Cybersecurity is a must for every individual. Also, with this field having over 3.1 million open positions across the globe, it is an excellent career option.

Yasir Shaikh is a pioneer in web security analysis and has vast experience in ethical hacking training, cyber-crime investigation and penetration testing. He is an ideal to many young students in India who take up security as their career



objective and a motivation to those who see and understand IT Security and its needs. While leading the training team of Macksofy Technologies, He has been constantly engaged in conducting workshops for corporates and the colleges. Yasir has trained more than 20,000 students across several colleges. In his experience of more than 5,000 training hours he has taken the stage at the most prestigious colleges and universities across India. He is awarded

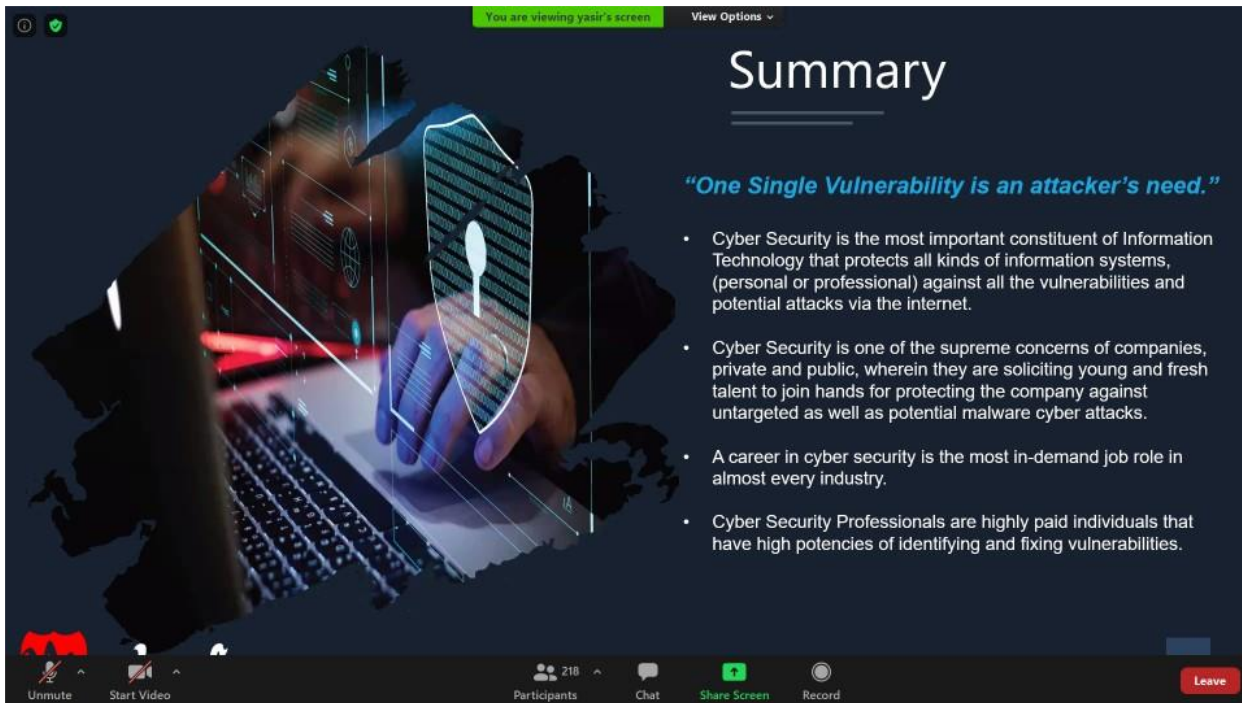
with the title of "Best Cyber Security Trainer" in 2018 By CSI. With more than 8 years of experience, Mr. Yasir along with his team have been conducting training and consultancy sessions across the globe. He is an official trainer for Maharashtra Police and Indian Navy.

Cyber Security plays an important role in the field of information technology. Securing the information have become one of the biggest challenges in the present day. Whenever we think about the cyber security the first thing that comes to our mind is cybercrimes which are increasing immensely day by day. Various Governments and companies are taking many measures in order to prevent these cybercrimes. Besides various measures cyber security is still a very big concern to many. This workshop mainly focuses on challenges faced by cyber security on the latest technologies. It also focuses on latest trends about the cyber security techniques, ethics and the trends changing the face of cyber security.



Mr. Shaikh Yasir Arafat, Technical Member at National Cyber Defence Research Centre (NCDRC), India., CTO, Macksofy Technologies Pvt Ltd., Mumbai acted as the resource person and spoke about the following points during the webinar.

- Cyberspace has inherent vulnerabilities that cannot be removed
- Innumerable entry points to internet.
- Assigning attribution: Internet technology makes it relatively easy to misdirect attribution to other parties
- Computer Network Defense techniques, tactics and practices largely protect individual systems and networks rather than critical operations (missions)
- Attack technology outpacing defense technology
- Nation states, non-state actors, and individuals are at a peer level, all capable of waging attacks



You are viewing yasir's screen

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Summary

“One Single Vulnerability is an attacker’s need.”

- Cyber Security is the most important constituent of Information Technology that protects all kinds of information systems, (personal or professional) against all the vulnerabilities and potential attacks via the internet.
- Cyber Security is one of the supreme concerns of companies, private and public, wherein they are soliciting young and fresh talent to join hands for protecting the company against untargeted as well as potential malware cyber attacks.
- A career in cyber security is the most in-demand job role in almost every industry.
- Cyber Security Professionals are highly paid individuals that have high potencies of identifying and fixing vulnerabilities.

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Some of the common threats discussed during the webinar are:

- **Malware – Malicious software to disrupt computers**
- **Viruses, worms, ...**
- **Theft of Intellectual Property or Data**
- **Hactivism – Cyber protests that are socially or politically motivated**
- **Mobile Devices and applications and their associated Cyber Attacks**
- **Social Engineering – Entice Users to click on malicious links**
- **Spear Phishing – Deceptive Communications (e-mails, texts, tweets)**
- **Domain Name System (DNS) Attacks**
- **Router Security – Border Gateway Protocol (BGP) Hijacking**
- **Denial of Service (DoS) – blocking access to websites**
- **Bottom line – easier to be a Bad Guy and volume of threats is growing**

Then the resource person also discussed about the career opportunities and certifications in the domain of cybersecurity.

The need for more cybersecurity professionals becomes clear just by scanning the news: data breaches and hacking are increasingly prevalent, and most businesses are recognizing the need to protect themselves from such attacks. An increased demand for cybersecurity services means that there's never been a better time to pursue a career in this growing field.

Popular Employer Salaries for Security Analyst

IBM India Private Limited	₹509k	
Wipro Technologies Ltd.	₹400k	
Accenture Technology Solutions	₹613k	
Paladion Networks	₹427k	
Accenture	₹541k	
Tata Consultancy Services Limited	₹440k	
HCL Technologies Ltd.	₹258k	
Capgemini	₹465k	

“Salary Scale”

When it comes to the cyber security market, much is made of the growing skills gap. Overlooked is how this can translate to enormous potential for professionals. For the second week of National Cyber Security Awareness Month (NCSAM) we break down the myriad of well-paying and rewarding jobs available, and salary data for today's cyber workforce.

Why Cyber Security As Career

In 2017, there are about 780,000 professionals in the U.S. employed in the cyber security field, with about 350,000 current openings. The ever-growing need for qualified, experienced cyber security professionals means that the field offers tremendous potential for professionals, offering job security, a good salary, and potential for advancement in the field. According to an analysis of data from the Bureau of Labor Statistics conducted by Peninsula Press, cyber security job postings are up 74 percent.



Source: <https://digitalguardian.com/>

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Towards the end of the webinar, students posed questions related to various certifications, courses to be studied to enhance the skill in the domain of cybersecurity and other issues related to ethical hacking.

Dr D Rajeswara Rao, HOD, Dept of CSE has thanked the resource person for his time and Dr Ch Rupa, coordinator has conveyed the vote of thanks.