**YASH AGARWAL| R134217187**

B. Tech in Computer Science 4Y (Specialization in Cyber Security and Forensics) **Areas of Interest(s):** Cryptography| Networking| Full Stack-Development| VAPT



**EDUCATIONAL QUALIFICATIONS**

**Year Degree/Examination Institution/Board CGPA/Percentage**

2019 B.tech( 5th Semester) University of Petroleum Studies, Dehradun 8.15/10.00

2017 SSC S.R. International School, Bareilly, India 87.8%

2015 HSC S.R. International School, Bareilly, India 9.8/10.0

**INTERNSHIPS / TRAINING**

1. **Cyber Security | Moose Cyber Security Institute, Melbourne**  (on-going)

There are various task including Penetration Testing, Cyber Defence, Threat Hunting, Secure Software Development , Red Teaming

1. **Web Development | Delta March Technoologies, Hyderabad** (07/2019-08/2019) Responsible for developing the website as per as client requirements and perform testing on it to check the possibility of SQL injection, Buffer Overflow and other possible attacks. At the end a fully secured site was developed .
2. **Electronics and ICT Academy| IIT Kanpur** (06/2019-07/2019) During this period I learned the concepts related to Networking and Cyber Security. I learned about Network attacks, Wireless attacks and about Various Threats. I also learned IoT hacking and Mobile Hacking(android) and also learned the concepts of cloud computing along with Cryptography.
3. **Web Developer | The Sparks Foundation, Singapore** (03/2019-07/2019)

Responsible for payment gateway integration, CRUD application, credit management, phone directory using js and social media integration.

1. **Security Fundamentals | Foxmula** (01/2019-03/2019) During this period I was exposed to various activites in Security Domain, implementing Fundamental Skills. I was exposed to kali Linux tools such as Nessus, Metasploit , metaspolitable and learned attacks like SQL Injection, Buffer overflow and few Network attacks.

**PROJECTS**

1. **Information Security and Quality Assurance Projects |** Free Code Camp(09/2019)

Completed many challenges like Metric Imperial Converter, Issue Tracker, Personal Library, Stock Price Checker and Anonymous Message Board.

1. **Penetration Testing on Windows OS, Web Server and Securing Cloud |** IIT Kanpur(06/2019-07/2019)
2. **JAVA Script algorithms and Data Structure Projects |** Free Code Camp (06/2019)   
   Completed many challenges like implementation of Ceaser Cipher, Palindrome Checker, Roman Numeral Convertor, Telephone Number Validator and Cash Register.
3. **Web Chat Application |** UPES  **(**02/2019-03/2019) Under this project, a web chat application is developed using PHP using the concept of time stamping and sessions using a database. Reference: Dr. Diksha Goel
4. **Prevention of attack in PHP** | UPES (04/2019-05/2019) Under this project attacks like SQI Injection and anti-flooding, CSFR which are used to obtain login credentials and are prevented using PHP. Reference: Dr. Diksha Goel
5. **Encryption and Decryption of Data** | UPES (02/2018-05/2018)  
   Implemented al the ciphers in C.

**Projects coordinated by Coursera**

1. **Setting up the firewall that perform DNAT and Masquerade**

Role: Set up outer firewall and ws server on DMZ to return the http response

1. **Protect instances with AWS Virtual Private Cloud(VPC)**

Role: Connecting VCs with peering connections, creating internet gateway for connecting VPC to internet; connecting together DMZ subnet, Intranet and Internet by setting up proper route tables both with VPC and with Virtual Machines.

1. **SQL injection attacks and defences**

Role: Exploiting a web app with Sql Injection vulnerability and patching it using input validation.

1. **Cracking Linux password with Hashcat using AWS P2 GPU**
2. **Hacking web apps with command injections and patch**

Role: Setting up the website in AWS instance which contain command injection vulnerabilities,

perform command injection attacks on web pages, searching valuable information on a victim and deploying a trojan

1. **Creating a shared project policy and implement with access control**
2. **Use gpg to sign and verify open source software.**
3. **Create, sign and install Web Server Certificate.**

**SKILLS**

**Computer Languages** C, C++, HTML, SQL, JavaScript, CSS, PHP

**Software Packages** Microsoft Visual Studio, Virtual Box, WordPress, Joomla, Notepad++, Microsoft

Expression, Kali, Linux

**Additional Courses Taken** 1. Java script algorithm and Data structure certification course 2. Introduction to HTML5

3. Interactivity with Javascript 4. Bits and Bytes of computer networking. 5. Managing database with MySQL 6. Search Engine Optimization certification course. 7. Crytography certification course 8. Network protocol and architecture by CISCO 9. Fundamentals of computer network security specialization by Colorado System 10. MTA certified in security fundamentals 11. MTA certified in Networking basics

**Badges Earned** 1. Gold Badge in C, Hacker Rank 2. Gold Badge in Python, Hacker Rank 3. Gold Badge in

Security, Hacker rank 4. Google Kubernetes Engine Best Practices, Qwik Labs

5. Cloud Hero Speed run: IoT & Big Data, Qwik Labs

**Positions of Responsibility**

**Executive Member of CSA Student Chapter**| UPES, Dehradun Student Chapter

Organized workshops and events in the domain of Computer Engineering.

**Extra-Curriculars**

* Participated in Hackathon 2.0 | UPES, Dehradun
* Participated in TechKirti’18 Ethical Hacking workshop conducted by IIT Kanpur
* Participated in Innovation in Science Pursuit for Inspired Research, A National Program INSPIRE Science Camp by DST, Ministry of Science and Technology
* Awarded title of Avid Reader in 2013

**Contact Details**

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