

# Yatin Kalra

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## About Me

Research Oriented Computer Science student. Interested in Computer Security, Operating System Hardening, and pen-testing. Team Player, always seeking opportunities to increase efficiency. Thrives on new challenges, actively seeking them, and takes pride in seeing them through to completion.

## Academic Qualifications

### Bachelor of Technology, Vellore Institute of Technology

2018 - Ongoing

- Major : *Computer Science and Engineering* Current CPA (after 4 semesters) : **8.34/10**
- Advanced Topics** : Computer Security, Operating System Hardening, Network Security & Cryptography, Block chain Technology

### High School Certificate, D.A.V. Public School

2017 - 2018

- Major : *Physics, Chemistry, Mathematics*

Percentage – **78%**

### Senior School Certificate, D.A.V. Public School

2017 - 2018

CGPA – **9.8/10**

## Publications

### Advancements in Cyber Attacks and Security International Journal of Innovative Technology and Exploring Engineering

Yatin Kalra\*, Saket Upadhyay, Dr. PS Patheja

[Our paper explores the variety of Cyber Attacks, their methodologies and core ideas with the motivations behind it, also the ways to circumvent the threats by putting lights on the ongoing and future technologies to tackle advanced threats.]

DOI: 10.35940/ijitee.D1678.029420

[Paper](#)

## Scholastic Achievements

- Achieved **All India Rank 3** in Cyber Security Session by Indira Gandhi Delhi Technical University 2020
- Achieved **Overall Rank 16** in Cipher Combat 2.0 – A Cybersecurity CTF Challenge by HackerEarth 2020
- Achieved **All India Rank 2** in Technology Quiz and Project by National Science Concours 2017

## Internships and Training

### Azure Skynet Solutions Pvt. Ltd. | Penetration Tester Trainee

Aug 2020 – Aug 2020

[Undergone training in Penetration Testing domain and worked on Operating System Hardening, Network and System Security Projects.]

### Systools Pvt. Ltd. | Cybersecurity Consultant and Security Associate

Mar 2020 – May 2020

[Worked on digital security on various computer systems and network as well. Contributed in increment of Hardening Point by 30%.]

### The Sparks Foundation | Technical Human Resource Intern

May 2019 – July 2019

[Contributed in increasing their annual outcome by 3.5% by developing PowerPoint and Presentation skills of people interning and working in association.]

## Research Projects

### Advancements in Cyber Attacks and Security | Guide: Dr. PS Patheja

May 2019 – Feb 2020

- Our paper explores the variety of Cyber Attacks, their methodologies and core ideas with the motivations behind it, also the ways to circumvent the threats by putting lights on the ongoing and future technologies to tackle advanced threats.]

### Block chain and its Applications | Guide: Dr. PS Patheja

May 2019 – Feb 2020

- Examining the constraints under which Block chain has some security issues or performs very well.
- Studied different applications and algorithms for Block chain security and proper functionality.

## Key Projects

**CryptoSecure** | Encryption | *Cyber Security*

Fall 2019

- Programmed a code to encrypt text and files in Base64 and SHA 256 algorithms in Python Programming Language.

**Audio based Feedback System for Visually Impaired Persons** | Artificial Intelligence

Winter 2019

- Programmed a code to detect the objects and revert as audio feedback for visually impaired persons in Python Programming Language.

## Other Projects

**Scan IT** | Cyber Security

Apr 2020

- Developed a web application to determine the credibility of website for online transaction using VT API in Python Programming Language.

**PyPort** | Pentesting | *Cyber Security* [\[Github Link\]](#)

Mar 2020

- Programmed a code to find various necessary details of open ports in targeted system, network or IP address in Python Programming Language.

**PySort** | Productivity [\[Github Link\]](#)

Mar 2020

- Programmed a code sort the files in particular file folder on the basis of their extension type in Python Programming Language.

## Invited Talks

- **Resource Person : The Sparks Foundation** – Delivered one hour Hands On lecture on Microsoft PowerPoint to enhance the presentation skills of peer employees.
- **Resource Person : International Conference on Cyber Welfare and Security, Cyber War** : Delivered a short personal view on the topic CYBER WAR

## Certificates

- **Usable Security – University of Maryland : Coursera**, Certificate Number : VDQ6888T26KT
- **Autopsy : Basic Technology** Certificate Number : 2d55a5ac-7edb-41fe-9884-635c7a2a7b9f
- **Network Security Associate** : Fortinet; Certificate Number: sk4G4Chw2j
- **Metasploit** : Cybrary; Certificate Number: C-af3d21f04e-5e31d25
- **Google Go Programming** : Coursera; Certificate Number: QSSKNEHX5F2P

## Technical Tools and Skills

Metasploit, SeToolKit, Autopsy, Wireshark, Advanced IP Scanner, Microsoft PowerPoint, Python (Proficient), C/C++ (Proficient), UNIX – Kali Linux, Java, SQL

## References

- **Dr. Raju Shanmugam**  
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