

Jitaksh Kapoor

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EXPERIENCE

Groww

Feb 2022 - Present

Cyber Security Intern

Bangalore, India

- Responsible for conducting Internal Pentesting of Website.
- Responsible for conducting security assessment of third party tools.
- Responsible giving security sign-off of various integration (Mostly newly integrated APIs).
- Responsible for source code review of new integrated code every month.
- Deployed various 3rd party commercial security tools like SALT API security, AppSentinels, etc on AWS and GCP.
- Responsible for validating bugs received via Groww's Bug Bounty program.
- Responsible for taking regular followups on various security tickets.

NTRO

Jan 2021 - Jun 2021

Development and Cyber Security Intern

New Delhi, India

- Developed a website for NTRO personnels deployed on their intra-network using WordPress.
- Developed Learning Management Portal for training of NTRO personnels using Moodle.
- Pentested the plugins in WordPress and Moodle to find the vulnerabilities.

PROJECTS

Encrypted Information Hiding using Cryptography and Audio Steganography 🔗

- The information to be sent securely is encrypted using **Advanced Vigenere algorithm**.
- In the next step, encrypted information is embedded behind the audio using **LSB encoding**. This technique is called **Audio Steganography**.
- Graphical plots of original audio and embedded audio hardly have any difference. Thus it is very difficult to differentiate between a normal and a steganographed audio.

Visual Cryptography and OCR Techniques for Processing the Enhanced Password Mechanism 🔗

- Text type passwords are converted into a image with password in black and background in white. This image is further converted into 2 shared images.
- Each shared image is encrypted with a different rearrangement of pixels.
- When these shared images are superimposed on each other, a image is formed with grey background and password letter in black.
- OCR function at last step retrieves password from the superimposed image. This technique is far more secure than conventional password hashing technique.

EDUCATION

Indian Institute of Information Technology Una

2018 – 2022

B.Tech in Information Technology

CGPA: 8.66

Cambridge International School Jalandhar

2016 – 2018

CBSE Board Class XII

Percentage: 91

SKILLS

Languages : Python, C++

Pentesting Tools : BurpSuite, Nmap, Postman, Wireshark, Hashcat, John the ripper, Metasploit, Nikto, Nuclei, sqlmap, etc.

Open-Source Intelligent (OSINT) : Shodan.io, Google Dorks

WebApp Vulnerabilities : XSS, SQLi, File Inclusion, Remote Code Execution, Broken Authentication, Business Logic Errors, Rate Limiting issues, etc.

DevOps : Docker, Kubernetes, Jira

PUBLICATIONS

A Novel Scrambled Data Hiding Approach Towards Securing Sensitive Information

- * The research paper has been published online in IETE Journal of Research, Taylor and Francis on 25.10.2021 .

Analysis of Symmetric and Asymmetric key algorithms

- * Review Article (Paper ID: 215) was presented at ICT4SD - 2021, Goa, India.
- * The article is has been published in Springer LNNS Series on 01.01.2022 .