

# Jitaksh Kapoor

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## EXPERIENCE

### Groww

Aug 2022 - Present

#### Cyber Security Analyst

Bengaluru, India

- Undertaking the responsibility of Security testing and Governance for a complete POD within the organisation.
- Responsible for conducting security assessment of third party tools like Firebase, Metabse, Slack, etc.
- Responsible giving security sign-off of various integration (Mostly newly integrated APIs).
- Hands-on working with various 3rd party commercial security tools like SALT API security, AppSentinels, etc.
- Responsible for Implementing a new bug bounty policy for the organisation and Driving the program as the primary SPOC.
- Undertook SAST and DAST for Groww's iOS App.

### Groww

Feb 2022 - Jul 2022

#### Cyber Security Intern

Bengaluru, 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 validating bugs received via Groww's Bug Bounty program.
- Responsible for taking regular followups on various security tickets.

## 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: 8.74

### Cambridge International School Jalandhar

2016 – 2018

CBSE Board Class XII

Percentage: 91

## SKILLS

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**Languages** : Python (Scripting), C++

**Security Testing** : Web Application Penetration Testing, Mobile Application Penetration Testing, API Security

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

**Top Vulnerabilities found in Applications** : XSS, SQLi, File Inclusion, Broken Authentication, Business Logic Errors, Rate Limiting issues, Parameter Pollution via share button, IDOR, PII of User Disclosure, etc.

**DevOps** : Docker, Kubernetes, Jira

## PUBLICATIONS

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**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 .

## Achievements

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### Bug Bounty

- Rewarded and Hall of Fame by Cult.fit security team.
- 9 valid reports sent to NCIIPC, Govt of India for reporting bugs on Governmental and Websites.

### CTFs

- Ranked 12th in CloudSek CTF out of 4000 students.