

Aryan Chandrakar

Graduate Student

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*Resourceful, rigorous, and task-driven cybersecurity graduate student at Carnegie Mellon University, seeking new opportunities to grow as cybersecurity specialist. With **3+ months of experience** in office environment along with **15+ projects** (including both major and minor projects) and **3 published papers, with 1 another under review**, adept to work independently and in team, always up to amplify my skills and deliver the best.*

EDUCATION

Carnegie Mellon University, Pitt., PA

Master's in information technology information security

Aug 2022 - Dec 2023

- Introduction to Information Security
- Fundamentals of Telecommunications and Computer Networks
- Applied Information Assurances

Vellore Institute of Technology, Vellore, TN

B.Tech. in CSE with specialization in Information Security

9.13/10.0 CGPA

July 2018 - May 2022

- Cryptography
- Blockchain & Cryptocurrency Technology
- Information Security Management
- Web Security
- Cyber Security
- Cyber Forensics and Investigation

EXPERIENCE

Imphy Uguine Precision

2021

Internship

- Developed a web interface to troubleshoot employee's data privacy in a social network

Jindal Stainless Ltd.

2020

Internship

- Reduced halt time spent in product info collection phase by introducing a warehouse data managing application

RESEARCH WORK

1. Approach to Deal with Prevailing Threats & Issues of False Privacy & Security [under review]

Submission: May 16, 2022; Journal of Applied Soft Computing, Elsevier

- Decreased network latency from *725ms* to *65.68ms*, with introduction of improved version of Onion routing protocol
- Developed system and browser assessor to keep secure with only effect of *0.4% in retransmission* and *1.6ms for latency* while a nil effect on CPU load

2. Image Protected Hypertext Transfer Protocol

Publication: Nov 5, 2021; International Research Journal of Engineering and Technology, Volume 8 Issue 11, November 2021- S.No.-2

- Introduced communication protocol to hide packet besides encrypting as in HTTPS, providing a security of 2.6×10^{21} yrs. against brute force attack
- Reduced chance of MITM attack during communications

MAJOR PROJECTS

- Approach to Deal with Prevailing Threats & Issues of False Privacy & Security [2022]
- Parallel Web Crawler and Vulnerability Assessment [2021]
- Privacy Preserving Graphs – Social Information Privacy Disclosure and Filtering [2021]
- Analysis of Security Providing Mechanism to Clients Using Vulnerability & Adware as Attack Injections [2020]
- Secure Portal – Website to protect & anonymize data and check for phishing sites [2019]

SKILLS

- | | |
|---------------------------------|---------------|
| • Python (HackerRank- 5/5 star) | • FTK Imager |
| • Java (HackerRank- 5/5 star) | • ProDiscover |
| • SQL (HackerRank- 3/5 star) | • Autopsy |
| • Linux | |

EXTRA-CURRICULAR ACTIVITIES

- Gold Level NASSCOM Certified Security Analyst [August 2021]
- Math – a – thon Rank-2 Honor [June 2020]
- Co- PR Head Visual Blogger's Club [2019-2021]
- Volunteer in Fifth Pillar NGO [2019-2020]
- Swimmer and Gym-goer
- Enjoys music and playing guitar