

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

CGPA

Master's in information technology information security

Present

- Intro to Computer System
- Applied Information Assurances
- Intro to Information Security

Vellore Institute of Technology, Vellore, TN

9.13/10.0 CGPA

B.Tech. in CSE with specialization in Information Security

July 2022

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

EXPERIENCE

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July 2021

Internship

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

Jindal Stainless Ltd.

May-July 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.
- ✓ Programed 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, giving a security of 2.6×10^{21} yrs against brute force attack and eliminating chance of MITM attack.

3. Vulnerability Redefined Development of Visual Idiom to Understand Vulnerabilities in India

Publication: Jun 5, 2021; Journal of Huazhong University of Science and Technology, Volume 50 Issue 6

- ✓ Devised a systematized way to detect vulnerabilities, summarize and illustrate current condition being faced by user and country

4. Brain Inspired Network Model Design and Security Analysis

Publication: May 24, 2021; Journal of Xi'an University of Architecture & Technology, Volume XIII Issue V, 2021

- ✓ Designed a faster way to communicate over network while ensuring security regarding same too.

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

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| <ul style="list-style-type: none"> • Programming Languages: <ul style="list-style-type: none"> ◦ Python (HackerRank- 5/5 star) ◦ Java (HackerRank- 5/5 star) ◦ C++ (HackerRank- 3/5 star) ◦ SQL (HackerRank- 3/5 star) • Web Development: <ul style="list-style-type: none"> ◦ HTML + CSS ◦ Bootstrap ◦ JavaScript | <ul style="list-style-type: none"> • Cisco Packet Tracer • ProDiscover • FTK Imager • Autopsy • Snort • MATLAB |
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ACHIEVEMENTS & ACTIVITIES

- Usable Security Honor, Grade: 100% [January 2022]
- Gold Level NASSCOM Certified Security Analyst [August 2021]
- Software Security Honor, Grade: 94.75% [April 2021]
- Math – a – thon Grade-2 Honor [June 2020]
- Co- PR Head Visual Blogger's Club [2019-2021]
- A-level NCC Cadet