

Apurv Singh Gautam

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LinkedIn

Portfolio

EDUCATION

- **Georgia Institute of Technology** Atlanta, US
Master of Science in Cybersecurity (M.S.) 2019 - Expected 2021
- **Symbiosis Institute of Technology** Pune, India
Bachelor of Technology in Information Tehcnology (B.TECH); CGPA: 8.63 2015 - 2019
- **The Aryan International School** Varanasi, India
Intermediate, Central Board of Secondary Education (CBSE); Score: 93.8% 2014 - 2015
- **St. Joseph's Convent School** Varanasi, India
High School, Indian Certificate of Secondary Education (ICSE); Score: 87% 2012 - 2013

EXPERIENCE

- **Georgia Institute of Technology** Atlanta, US
Graduate Teaching Assistant Aug 2019 - Present
 - **Course:** CS 6250-O01 Computer Networks
- **Volon Cyber Security Pvt. Ltd., Pune** Pune, India
Security Research Intern May 2018 - May 2019
 - **Area:** Threat Intelligence - Obtaining Intelligence from hack forums and dump shops
 - **Work:** Scraped **5-10 GBs** of dark web forum and dump shops data, constructed data collect systems for threat indicators in **Elasticsearch** and automated the collection process using **Scrapy**.
- **I-Medita, Pune** Pune, India
Trainee Feb 2018 - May 2018
 - **Area:** Cisco Networking
 - **Learning:** Training for Cisco Certified Networking Associate (CCNA) with 90% practical approach including **Router configuration, Switch configuration, and ACL configuration.**
- **Lucideus Cyber Space, Delhi** Delhi, India
Security Trainee Dec 2014 and Dec 2016
 - **Area:** Security Basics, Networking, Pentesting
 - **Learning:** Networking Basics, Digital Footprinting, Email Security, System Security, Wireless Security, WAPT, and Network Pentesting.

SKILLS

- **Programming:** Proficient in Python, Java, and Bash. Fundamentals of C, C++, PHP, JavaScript
- **Security:** Threat Intelligence, Threat Hunting, Security Analysis, Security Automation, Network Security, Penetration Testing, Red Teaming

PUBLICATIONS

- **Gautam A.S.**, Gahlot Y., Kamat P. (2020) Hacker Forum Exploit and Classification for Proactive Cyber Threat Intelligence. In: Smys S., Bestak R., Rocha A. (eds) Inventive Computation Technologies. ICICIT 2019. Lecture Notes in Networks and Systems, vol 98. Springer, Cham
- Kamat, Pooja, and **Apurv Singh Gautam**. "Recent Trends in the Era of Cybercrime and the Measures to Control Them." In Handbook of e-Business Security, pp. 243-258. Auerbach Publications, 2018. First Edition by CRC Press - Taylor & Francis Group

PROJECTS

- **Hacker Forum Exploit and Classification for Proactive Cyber Threat Intelligence:** Research project that utilizes hacker forum data for proactive cyber threat intelligence using **Python** [\[Research Project\]](#)
 - One of the **first few research** talking about Threat Intelligence with respect to Dark Web data in 2018.
 - Utilized ML & DL approaches in classifying data with **precision above 95%** for all the models used
 - Used Python's **Scrapy framework** to scrape data from dark web
 - Final result gave **96.56% precision** for RNN GRU model
- **Anonymous Traffic Network:** A research paper describing the Onion routing concept, its working, and security issues. [\[Paper\]](#)
- **Question Mark:** Python web application that aims to serve as a platform where people can ask questions, share valuable knowledge and devise reliable solutions by answering the queries. The idea is to bring the knowledge from peoples head to a far-reaching platform where they can share and others can learn. Flask Python Framework is used. [\[Project\]](#)
- **Unnati (SPEP):** Skilled People Employment Portal is a responsive Java web application that provides employment to skilled village people. HTML, CSS, JavaScript and Bootstrap is used for front end. Java Servlets and JSP is used for back end. [\[Project\]](#)
- **UserCred Hack:** Combination of several python application that grabs user credentials. Contains clipboard hijacking, keylogger and chrome password hijacking. Pyperclip, win32crypt, pythoncomm & pyHook modules are used. [\[Project\]](#)
- **Reverse HTTP Shell:** Python application that is used to get connection of client to the server using HTTP protocol. BaseHTTPServer module is used. [\[Project\]](#)

ACHIEVEMENTS

- **Best Outgoing Student Award - Symbiosis Institute of Technology, Pune, India:** Awarded as the Best Outgoing Student from B.Tech Information Technology 2015-19
- **DRDO Cyber Challenge - DRDO, Governemnt of India:** Received Certificate of Achievement for securing 45th rank out of 1489 participants in DRDO CTF challenge. [\[Link\]](#)

CERTIFICATIONS

- **CompTIA Security+ 501 by CompTIA:** License RHVTCJGEZLB11630 (Feb 2019 - Feb 2022) [\[Link\]](#)
- **Computer Forensics by RITx:** License d30d8c0584244987a0d06fc904a4ca99 (July 2017) [\[Link\]](#)
- **Cybersecurity Fundamentals by RITx:** License c37e4ae5dcc044e8a340d4b27829c1d5 (July 2017) [\[Link\]](#)

EXTRA-CURRICULAR

- Volunteering as a **Teaching Assistant for Cybrary** - creating materials for several security courses including Intro to Threat Intelligence, Insider Threats, Intro to TOR and many more.
- Volunteering as a **Community Challenger at Cybercademy** - creating security challenges for students.
- Successfully completed many **trekking & mountaineering** expeditions in different Himalayan ranges of India.
- Conducted **Git & Virtualization Buddy Session** for third year Computer Science students of SIT.
- Conducted **NS3(Network Simulator) Buddy Session** for third year Information Technology students of SIT.
- Conducted a **Cyber Privacy Seminar** at MITCOE Pune on behalf on Logout - Privacy Seminar. [\[Link\]](#)
- Delivered a talk on **"Bitcoin Forensics"** at Null Pune chapter meet. [\[Link\]](#)
- Delivered a talk on **"OSINT"** at Null Pune chapter meet. [\[Link\]](#)
- Delivered a talk on **"Intorduction to VAPT"** at Null Pune chapter meet. [\[Link\]](#)
- Delivered a small talk on Security News at Null Pune chapter meet. [\[Link\]](#)
- Conducted a one day workshop on **Cyber Security Awareness** at Symbiosis Institute of Technology, Pune, India.
- Conducted a two day workshop on **Cyber Security Awareness** at The Aryan International School, Varanasi, India.