

# Ansh Chandnani

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## EDUCATION

### Drexel University

September 2019 - June 2023

*B.S. in Computing & Security Technology, minor in Computer Science*

*Cumulative GPA: 3.95/4.0*

**Selected Coursework:** Computer Forensics, Network Administration, Ethical Hacking, Systems Programming, Advanced Programming Techniques, Database Management Systems, Web Systems & Services, Server Management, Discrete Mathematics

## WORK EXPERIENCE

### Google

Sunnyvale, CA

*Security Engineering Intern - Detection Team*

*June 2021 - September 2021*

- Designed & built a **platform and OS agnostic** Zeek script validation tool using **Go** and the **Google Cloud Platform**.
- Implemented the tool as an **on-demand utility** with a **custom Docker image**, **eliminating the need for manual testing** and reducing the **testing time to 60 seconds**.
- Assisted the **Corp Task Force** in threat analysis and detection operations to improve the internal security posture.

### Susquehanna International Group

Bala Cynwyd, PA

*Cybersecurity Coop - Firewall Services Team*

*September 2020 - March 2021*

- Facilitated **secure network access** across **global offices and exchanges** for various services and workstations.
- Designed and built a **Rule Lookup** tool using **Python3** and custom APIs for all firewalls, **eliminating the need for manual lookup operations**.
- Engaged in automation projects for **firewall health checks, status checks, and information gathering operations**.

### STAR Scholars, Drexel University

Philadelphia, PA

*Cybersecurity Research Intern*

*July 2020 - September 2020*

- Explored how **ontologies & semantic graphs**, with **SPARQL** queries, can be used to secure Industrial Control Systems.
- Developed an ontology using **Protege** to model **threats, vulnerabilities, and exploits** among other vital information from an Ethical Hacking standpoint.
- Co-authored a research paper** published by the 16th International Conference on Cyber Warfare and Security.

### Kyrion Technologies, Microsoft Training Association

Kolkata, India

*Cybersecurity Intern*

*June 2019 - July 2019*

- Worked on fundamental security methodologies including **Network Management, Vulnerability Analysis, and basic Penetration Testing**.
- Developed and used exploits for **Man In The Middle, Cross Site Scripting, Dictionary based, & Phishing attacks**.
- Presented conclusive research analysis on **Hash Functions** such as **SHA1, MD5, & SHA2** used on industrial scales.

## SKILLS

Security	Nmap, JohnTheRipper, Wireshark, Burpsuite, Aircrack-ng, Crunch
Programming	Python, Go, C++, Bash, JavaScript, PHP, SQL
Operating Systems	Linux (Ubuntu, Kali, Arch), Windows Server & Workstation, MacOS
Tools & Technologies	Git, Docker, Windows Powershell, Vim, Protege, FortiManager, L <sup>A</sup> T <sub>E</sub> X

## SELECTED PROJECTS

- BabyRSA** - A cybersecurity tool coded in python that **decodes RSA Encryption based on three given variables**
- OfflineCaesar** - A nifty python script to **brute force Caesar Ciphers**. Useful tool in **Capture The Flag** competitions.
- SpyFi** - **Wifi and Network monitoring** tool written in python using the *os* module. Utilizes the **Aircrack-ng** suite.
- Oracle SQLizer** - Python script that uses **RegEx** and iteration to create SQL INSERT statements while managing data types from an inputted CSV file.
- SSL Strip** - Utilized *SSLStrip by Moxie Marlinspike* to lead attacks on dedicated target machine. Used concepts of **Networking, Port Forwarding, and Passive Reconnaissance**.

## CERTIFICATIONS

- Security Fundamentals, Microsoft Training Association
- Network Fundamentals, Cybrary

## INVOLVEMENTS & ACHIEVEMENTS

- Vice President** of Drexel Cyberdragons (Cybersecurity club)
- Authored** a chapter introducing Algorithmic Biases promoting Media Literacy (*In Press. by American Library Association*)
- Awarded 'Best Poster Presentation' at the **Stanford Research Conference 2021**
- Presented research at the **Harvard National Collegiate Research Conference 2021**
- Regional Winners** in the Collegiate Penetration Testing Competition 2020 (part of the Drexel University Team)
- Ranked 4th out of 113 teams** in the CyberSEED Capture-the-Flag (CTF) competition 2021