Ansh Chandnani

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ACADEMICS

Drexel University   September 2019 - June 2023

B.S. in Computing & Security Technology, minor in Computer Science   Cumulative GPA: 3.91/4.0

Selected Coursework: Network Security, Ethical Hacking, Operating Systems, Computer Forensics, Database Management Systems, Server Management, Disaster Recovery, Systems Architecture, Virtual Environments & Cloud Security

Publications:

⇒ "Ontology Modeling of Industrial Control System Ethical Hacking", **ICCWS 2021**

⇒ "Finding Balance - Looking Towards the Future, in Media Literacy for Justice", **American Library Association**

WORK EXPERIENCE

Google   July 2023 - Present

Security Engineer II - Offensive Security   *Sunnyvale, CA*

- Designing and executing realistic **offensive security exercises** against critical assets to improve Google's security posture.
- Developing tools to support penetration tests through **reconnaissance** and **post-exploitation** phases.
- Collaborating across teams on security reviews, vulnerability taxonomies, and organizing Capture-the-Flag competitions.

Google   June 2022 - September 2022

Security Engineering Intern - Offensive Security   *Sunnyvale, CA*

- Conducted **Open Source Intelligence (OSINT)** investigations on Google's Production and Corporate networks.
- Created **query-driven knowledge graphs** allowing penetration testers to save >**2 weeks** during reconnaissance.
- Collaborated on specialized **penetration tests** targeting critical production infrastructure simulating internal threat actors.

Google   June 2021 - September 2021

Security Engineering Intern - Detection Team   *Sunnyvale, CA*

- Designed & built a **platform & 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, reducing the **testing time** to **60 seconds.**
- Assisted the **Corp Task Force** in threat detection & analysis to prevent **insider threats** & **permission creep**.

Susquehanna International Group   September 2020 - March 2021

Cybersecurity Coop - Firewall Services   *Bala Cynwyd, PA*

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

STAR Scholars, Drexel University   July 2020 - September 2020

Cybersecurity Research Intern   *Philadelphia, PA*

- Researched the use of **ontologies** & **semantic graphs**, with **SPARQL** queries, to secure **Industrial Control Systems.**
- Developed an ontology using **Protege** modeling **threats, vulnerabilities, and exploits** & other vital information.
- **Co-authored a research paper** published by the 16th **International Conference on Cyber Warfare and Security.**

Other Experiences: Cybersecurity Intern at Kyrion Technologies, Fellowship at Young Leaders' for Active Citizenship

SELECTED PROJECTS

- **eBPF Sysmonitor -** Architected an **eBPF** based system monitor to detect events and threats in **distributed computing environments**.
- **Malware Analysis with Machine Learning -** Built parameterized **malware** to train **n-gram** based models to detect malware threats.
- **Hacker Labs -** Constructed a cybersecurity lab using Proxmox, Kali Linux, and vulnerable machines to faciliate a **learning environment for 500+ students**.

CERTIFICATIONS & TRAININGS

- Security Fundamentals, Microsoft Training Association
- OSINT Corporate Recon, HackTheBox Academy
- Bug Bounty Track, HackTheBox Academy

INVOLVEMENTS & ACHIEVEMENTS

- **President** of Drexel Cyberdragons (Cybersecurity club), 2022-23
- 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 2021 (part of the Drexel University Team)
- **Ranked 4th out of 113 teams** in the CyberSEED Capture-the-Flag (CTF) competition 2021
- Competed in HTBxUNI CTF 2021, National Cyber League, CPTC 2022, CCDC 2022