

David Dworken

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Education

Northeastern University: 2016 – Present, GPA: 4.0/4.0
College of Computer and Information Science, 2020

Relevant Classes:

- Algorithms & Data, Networks & Distributed Systems

Skills

- Proficient with Python, Java, and Rust
- Product security and bug bounties
- Working knowledge of Bash and JavaScript
- Basic knowledge of embedded electronics

Previous Work and Experience

tulgey.io

(June 2018 - Aug. 2018)

Founder and Developer of tulgey.io

- Created a distributed system to continually discover and port scan millions of IPv6 hosts
- Devised a novel strategy building off of numerous academic papers in order to discover more than 5 times as many IPv6 hosts as previously discovered using publicly available datasets

Snap Inc.

(Jan. 2018 - May 2018)

Software Engineer Intern on the Application Security team

- Engaged with a variety of engineering teams through security reviews in order to remediate discovered vulnerabilities and improve the security architecture of applications
- Designed and implemented a generic backend service to import binary artifacts from third party repositories into a Snap controlled bucket to defend against compromised upstream repositories
- Created a Gradle plugin to automatically migrate the transitive dependencies of a given Gradle project

Salesforce

(June 2017 - Aug. 2017)

Product Security Engineer Intern

- Audited code and assisted in identifying a number of security vulnerabilities
- Created and open sourced AutoTriageBot: A HackerOne bot capable of automatically verifying 30-40% of incoming vulnerability reports

Northeastern University

(Sep. 2016 - May 2017)

Student researcher at Northeastern's College of Computer and Information Science

- Created a Raspberry Pi appliance to automatically provision Tor Hidden Services for connected devices
- Wrote a custom Intrusion Detection System (IDS) that automatically scans devices for vulnerabilities using a variety of online databases

Personal Projects

snapperS (<https://github.com/ddworken/snapperS>)

- Wrote a Python program to assist in managing BTRFS subvolumes created by Snapper
- Allows easy and secure deletion of a file from all BTRFS snapshots

racython (<https://github.com/ddworken/racython>)

- Wrote a Racket interpreter in Python and implemented recursion and local scope for variable bindings

Cybersecurity Work

- Honored by the Secretary of Defense for participation in the Department of Defense's bug bounty
- Responsibly disclosed security vulnerabilities to over three dozen different companies including Uber, Google, Microsoft, and Mozilla through their bug bounty programs
- Ported WiFi jamming functionality to [LANs.py](#), an MITM tool with thousands of users
- Contributed code to [xsscrapy](#), an open source XSS and SQLi vulnerability scanner
- Added XSS and SQLi scanning functionality to [mitmproxy](#)

Competitions

MITRE embedded CTF—2nd Place

- Developed exploits for secure embedded bootloaders in MITRE's embedded CTF competition

Northeast Collegiate Cyber Defense Competition—2nd Place

- Secured and defended a simulated corporate network from attackers over a 3 day competition