

David Dworken

david@daviddworken.com
hackerone.com/ddworken
github.com/ddworken
571-232-4556

Education

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

Skills

- Proficient with Python, Java, and Rust
- Working knowledge of Bash, Go, and JS

Work and Experience

Keybase

Software Engineer Intern

(June 2019 - Present)

- Developing an open source Go based SSH CA system leveraging Keybase's cryptography protocols

Datadog

Security Engineer Intern on the Application Security team

(Jan. 2019 - May 2019)

- Created a secure logging library to automatically redact secrets from over 100 million log lines per day
- Deployed custom static analysis tools to CI/CD pipeline preventing multiple bugs from being deployed

tulgey.io

Founder and Developer of tulgey.io

(June 2018 - Aug. 2018)

- 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.

Software Engineer Intern on the Application Security team

(Jan. 2018 - May 2018)

- 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

Salesforce

Product Security Engineer Intern

(June 2017 - Aug. 2017)

- 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

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

(Sep. 2016 - May 2017)

- 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

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
- Added XSS and SQLi scanning functionality to [mitmproxy](#)

Competitions & Publications

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

ACSAC 2018—[An Extensive Evaluation of the Internet's Open Proxies](#)

- Conducted a long term study of open proxies and tor exit nodes in order to measure malicious behavior