

# David Dworken

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[hackerone.com/ddworken](https://hackerone.com/ddworken)

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## Goals

- Major in Computer Science and minor in Electrical Engineering at Northeastern University.
  - Continue to contribute to open source projects and search for vulnerabilities in widely deployed software.
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## Education

Northeastern University: Graduation in 2020

Relevant Classes:

- Fundamentals of Computer Science 1
- Discrete Structures

Maret School: Graduated in 2016

Relevant Classes:

- AP Computer Science
  - Independent Study in Computer Science: Rust
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## Skills

- Proficient with Python and Rust
  - Web security and bug bounties
  - Experienced with Bash for scripting
  - Basic knowledge of LaTeX and C++
  - Basic knowledge of embedded electronics
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## Previous Work and Experience

HackerOne (Winter 2015 - Now)

Independent Security Researcher on the HackerOne Platform ([hackerone.com/ddworken](https://hackerone.com/ddworken))

- One of the top 10 ranked researchers on Uber's bug bounty
- Responsibly disclosed vulnerabilities to over three dozen different companies
- Publicly disclosed numerous reports as a learning resource for other researchers

Northeastern University (Fall 2016 - Now)

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

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

Georgetown University (Summer 2015)

Researcher at Georgetown's Computer Science Security Lab

- Wrote custom programs to automatically classify thousands of different proxies behavior
  - Discovered numerous free proxies that maliciously modify traffic
  - Compared behavior of free proxies to the behavior of Tor exit nodes
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## 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
  - Implemented recursion and local scope for variable bindings
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## Cybersecurity Work

- Honored by the Secretary of Defense for participation in the Department of Defense's bug bounty program
- Participated in HackerOne's inaugural H1-702 bug bounty program at DEF CON 24
- 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](#)
- Helped fix bugs in Lets Encrypt, software that helps increase adoption of SSL through free automatically issued SSL certificates