

David Dworken

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Goals

Double major in Computer Science and Electrical Engineering in college.
Continue to contribute to open source projects and search for vulnerabilities in widely deployed software.

Education

The Maret School: Graduation in 2016

GPA of 3.78

Relevant Classes:

- AP Computer Science
 - Independent Computer Science: Rust
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Skills

- Proficient with Python and Rust
 - Experienced with Bash for scripting
 - Experienced with Linux, Windows, Android, and iOS
 - Basic knowledge of LaTeX and C++
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Previous Work and Experience

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

Maret Engineering Team (2012-present)

Team Captain

- Designed, produced, and soldered all electronics to control an underwater robot
 - Worked closely with the programming team to create an API to control the robot
 - Won Best Design Award at Marine Advanced Technology Education Remotely Operated Vehicle competition
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Personal Projects

Hardware Password Manager ([Github://ddworken/hardwarePasswordManager](https://github.com/ddworken/hardwarePasswordManager))

- Wrote a custom library to allow storage of strings in non-volatile memory (EEPROM)
- Programmed Arduino to output the password by typing it into a computer in a variety of ways to combat keyloggers for added security

Recoverable Secret Generator ([Github://ddworken/recoverableSecretGenerator](https://github.com/ddworken/recoverableSecretGenerator))

- Wrote a Python script to randomly generate a password using an error correcting code that allows for recovery of partially forgotten passwords
 - Used hashing algorithms to translate passwords to private/public key pair
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Cybersecurity Work

- Reported vulnerabilities to: Western Union, Amazon, eBay, Netflix, MailChimp, Adobe, AT&T, Valve, Dyn, Tumblr, CloudFlare, and many other companies
- 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
- Helped fix bugs in Let's Encrypt, software that is currently being deployed to increase adoption of SSL through free automatically issued SSL certificates