

# Christopher Raley

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## Education

### University of Virginia

BACHELOR OF ARTS IN COMPUTER SCIENCE

- **Major GPA:** 3.73
- **NSA/DHS Cybersecurity Focal Path:** Pathway to satisfy standards of the National Center of Academic Excellence in Cyber Defense Education

Charlottesville, VA

May 2020

### University of Virginia

ANTICIPATED MASTER OF COMPUTER SCIENCE

Charlottesville, VA

May 2021

## Experience

### Northrop Grumman

CYBERSECURITY ENGINEER INTERN

- Designed Angular 8 and Python web application to increase efficiency of quality assessments by implementing time-efficient automation.
- Incorporated external REST API calls to Angular 7 web app in order to provide federated, bulk search capabilities to support DHS analysts.

McLean, VA

May 2019 - Aug. 2019

### University of Virginia

NETWORK SECURITY TEACHER ASSISTANT

- Provided weekly presentations for session hijacking, cryptography, penetration testing/red teaming techniques.
- Aided faculty in designing Ubuntu virtual machines for SSH Man-in-the-Middle and rogue X.509 certificate classroom activities.

Charlottesville, VA

Aug. 2018 - PRESENT

### University of Virginia

CYBERSECURITY RESEARCH ASSISTANT

- Developed user-friendly tutorials on how to properly assess, exploit, and patch vsftpd backdoor vulnerability (CVE-73573) on Linux machine.
- Designed a guide on how to exploit Man-in-the-Middle between end users and a virtual private network to raise global awareness.

Charlottesville, VA

Aug. 2018 - PRESENT

### University of Virginia / National Security Agency

GENCYBER CAMP TEACHER ASSISTANT

- Arranged CTF (Capture-The-Flag) platform to demonstrate the dangers of SQL injection, XSS, CSRF attacks to promote secure coding practices.

Charlottesville, VA

May 2018 - Jun. 2018

## Projects

### Rubber Ducky Rogue X.509 Certificate Installer

- Designed Hak5 Rubber Ducky USB script to automatically install a rogue X.509 certificate onto Windows, Mac, and Linux machines.
- Script allows for remote attacker to act as Man-in-the-Middle between victim and gateway router leading to stolen credentials.

### Server Side Template Injection Walk-through

- Python Flask web application hosted on Debian 9 machine that is vulnerable to Server-Side-Template-Injection.
- Designed tutorial to walk through users on how to exploit this injection and remotely execute code as a result.

## Skills

**Cybersecurity** Penetration Testing, Reverse Engineering, Vulnerability Assessment, Web Application Exploitation, Cyber Forensics

**Programming** Python (Proficient), Java (Proficient), JavaScript (Proficient), PHP (Proficient), C (Familiar), C++ (Familiar), SQL (Familiar)

## Certifications

AWS **Amazon Web Services Solutions Architect Associate**  
CompTIA **CompTIA Security+**  
Cisco **Cisco Certified Network Associate Routing and Switching**

August 2019

July 2018

Aug. 2018