

# Christopher Raley

✉ raley.christopher98@gmail.com | 🌐 raley.cs | in csraleay

## Experience

### Amazon Web Services

Herndon, VA

SECURITY ENGINEER INTERN

May 2020 - Aug. 2020

- Overhauled Go forensics artifact collection program capabilities by redefining collection process and implementing automated analysis of artifacts via AWS Lambdas to quickly provide meaningful and analytical data.
- Programmed Go solution to handle different OS system interrupts and provide telemetry to enhance team's artifact collection capabilities.

### Northrop Grumman

McLean, VA

CYBERSECURITY ENGINEER INTERN

May 2019 - Aug. 2019

- 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.

### University of Virginia

Charlottesville, VA

CYBERSECURITY RESEARCH ASSISTANT

Aug. 2018 - May 2020

- Developed user-friendly tutorials on how to properly assess, exploit, and patch vsftpd backdoor vulnerability (CVE-73573) on Linux machine.

### University of Virginia / National Security Agency

Charlottesville, VA

GENCYBER CAMP TEACHER ASSISTANT

May 2018 - Jun. 2018

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

## Education

### University of Virginia

Charlottesville, VA

MASTER OF COMPUTER SCIENCE

May 2021

### University of Virginia

Charlottesville, VA

BACHELOR OF ARTS IN COMPUTER SCIENCE

May 2020

## 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.

## Technical Skills

**Cybersecurity** Penetration Testing, Reverse Engineering, Vulnerability Assessment, Web Application Exploitation, Cyber Forensics  
**Programming** Python (Proficient), Java (Proficient), JavaScript (Proficient), Go (Familiar), C (Familiar), C++ (Familiar)

## Certifications

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