

Jack Potter

<https://hackpotter.com>
jack@hackpotter.com | 319-239-8709

EDUCATION

IOWA STATE UNIVERSITY

BACHELOR OF SCIENCE IN
CYBERSECURITY ENGINEERING
Expected May 2020 | Ames, IA
Cum. GPA: 3.22

DEF CON ATTENDEE

PARTICIPANT IN VARIOUS VILLAGE
ACTIVITIES, WORKSHOPS, CTFs, ETC.
2013, 2015-2019

WAVERLY-SHELL ROCK SENIOR HIGH SCHOOL

Grad. May 2016 | Waverly, Iowa

COURSEWORK

UNDERGRADUATE

Cyber Security Fundamentals

(Teaching Assistant)

Cyber Security Concepts and Tools

(Teaching Assistant)

Network Protocols and Security

Operating Systems

Application of Cryptographic Concepts

Linux System Essentials

SKILLS

OPERATING SYSTEMS

- Linux (Primarily Arch, Ubuntu, Fedora)
- Some MacOS and FreeBSD

NETWORKING

- Setup/Management
- Auditing with Nmap and Wireshark

MAJOR TOOLS

- Security: Metasploit, Burp Suite
- Virtualization: vCenter, VirtualBox

PHYSICAL SECURITY

- Lock picking, raking, over-lifting, etc.
- Lock bypassing (shims, under-door tools)
- Badge cloning, REX manipulation, etc.

SOCIAL ENGINEERING

- Pretext development
- Phone call impersonation
- Physical walk-ins (tailgating, etc)

PROGRAMMING LANGUAGES

- Scripting: Python, Bash
- Application: C, Java
- Other: Verilog, \LaTeX

EXPERIENCE

RSM | SECURITY, PRIVACY, AND RISK CONSULTING INTERN

June 2019 – August 2019 | Des Moines, IA

- Performed internal and external penetration tests, social engineering engagements, and physical security assessments
- Communicated security vulnerabilities to clients and team members
- Developed scripts to automate steps of reconnaissance for external pentests

JOHN DEERE | CLOUD SECURITY INTERN, EMBEDDED SECURITY INTERN

April 2018 – June 2019 | Ames, IA

- Audited Amazon Web Services resources and security policies to ensure security and reliability of cloud systems
- Developed approximately 10 Python scripts to automate audit processes and enforce security guidelines
- Researched and developed containerized active defense solutions for network security using Docker and ADHD Linux
- Performed penetration tests against John Deere GEN 4 Display Unit, primarily targeting network communication as well as Bluetooth and WiFi interfaces

IOWA STATE UNIVERSITY | CYBER SECURITY TEACHING ASSISTANT

August 2018 - Present | Ames, IA

- Lead 90 students through weekly hands-on networking and security labs, explaining core concepts and expanding on lecture material
- Manage up to 900 virtualized student lab machines across 90 networks with VMware vCenter
- Assist students with troubleshooting issues and guide them to discover solutions independently
- Present lecture on physical security concepts and tools to the class

PERSONAL PROJECTS

SOCIAL ENGINEERING CAPTURE THE FLAG AT DEF CON

DEF CON 26 and 27 (2018-2019)

Performed extensive open source intelligence gathering against two fortune 500 companies, wrote 12 pretexts using principles outlined by Mitnick and Hadnagy to establish rapport and justify contact, collected flags through research and live calls.

CONDITIONONE DEF CON schedule building tool

Python-based screen scraper and scheduling tool built for planning trip to DEF CON hacking conference, allows user to interactively search for talks based on key words and add them to a schedule that automatically detects scheduling conflicts.

ACTIVITIES AND ORGANIZATIONS

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| 2016-2019 | ISU Cyber Defense Competition (national champion team 2019) |
| 2016-2018 | HackISU Fall Hackathon competitor (1st place team 2018) |
| 2016-2019 | ISU Information Assurance Student Group member (vice president) |
| 2018-2019 | SecDSM member |
| 2017-2018 | ISU Engineering Student Council executive board member |
| 2016-2018 | ISU Freshmen Leaders in Engineering (executive board, president) |