David Wolfe

Dedicated GIAC certified security professional with a passion for problem solving and teamwork

EXPERIENCE

Mandiant, Denver, CO— *Red Team Intern*

June 2022 - August 2022

- Conducted External/Internal penetration tests, vulnerability scans
- Created accurate and detailed reports for clients
- Contributed to [Route-Sixty Sink](#) project development
- Organized and executed a multifaceted phishing/vishing campaign to gain access to a client's internal network.

RSM US LLP, Ames, IA— *Cyber Testing Intern*

June 2021 - August 2021

- Conducted External/Internal penetration tests, vulnerability scans
- Assessed threats, risks and vulnerabilities from emerging security issues to advise pertinent stakeholders on appropriate measures
- Developed a more efficient web based solution for vulnerability reporting

Collins Aerospace, Cedar Rapids, IA— *Product Security Intern*

May 2019 - June 2021

- Worked with a small team to develop and deploy a web app to aggregate and display rest API data (JIRA)
- Conducted security tests involving tcp/udp flooding, port scanning, network enumeration, and exploit testing
- Wrote data fuzzers using boofuzz and libfuzzer
- Conducted independent research into the use of different access control applications such as AppArmor and SELinux.

Mount Vernon Community School District, Mount Vernon, IA— *IT Student Worker*

May 2017 - May 2019

EDUCATION

The SANS Technology Institute, Bethesda, MD— *Undergraduate Certificate in Applied Cybersecurity (GPA: 4.0)*

July 2022

- Top 100 in SANS Cyberstart Game and Cyberstart Essentials
- Awarded Scholarship for Cyberstart Essentials
- Awarded a full scholarship to pursue an Undergraduate Certificate in Applied Cybersecurity

Iowa State University, Ames, IA— *Cyber Security Engineering (GPA: 3.98)*

Expected in May 2023

- President of Information Assurance Student Group (IASG)

SKILLS

Python 2/3, Java, C++

Boofuzz/LibFuzzer

Agile Development

Penetration Testing

Vulnerability Assessment

Social Engineering

AWARDS/CERTS

GIAC Certified Incident Handler (GCIH)
Passed exam with a 93%

GIAC Security Essentials Certificate (GSEC)
Passed exam with a 96%

GIAC Penetration Tester (GPEN)
Passed exam with a 96%

Excellence Award for AppArmor vs SELinux presentation
Monetary award for useful research and presentation into MAC programs

1st Place NCL Spring 2022 Team Game
SANS Gold 1 team.

PROJECTS

Topographic Sandbox
Designed, programmed, and built an augmented reality topographical sandbox

Personal Website
Designed and maintain a small personal website

CalHack Hackathon
Programmed an interactive map of the United States that displayed the spread of COVID-19 vs misinformation

- Founded the IASG Capture the Flag (CTF) team
- Participated in CTFs, and Cyber Defense Competitions (CDC)

Information Assurance Student Group Volunteer (IASG), Iowa State University Student Organization

- Organized Capture the Flag (CTF) events for a year as the CTF chair of the club (2021-2022)
- Presented on topics ranging from common web vulnerabilities to detailed Kerberos protocol analysis.
- Performed club outreach, meeting organization, and general management as club President for one year (2022-2023).

Teaching Assistant, Iowa State University (2020-2023)

- Classes: CprE 185/230/231/331
- Provided supplementary presentations to accompany lectures over cyber security topics
- Helped students fill in knowledge gaps before exams and projects.
- Led technical labs covering topics from intro networking to maintaining persistence on a compromised machine
- Provided additional guidance for students during office hours and through one on one meetings outside of class

NASS Summer Conference Volunteer (2021), Des Moines, Iowa

- Volunteered as a technical lead for the National Association of Secretaries of State (NASS)
- Explained complex cyber security concepts involved with election security and social media to secretaries of state from across the country
- Demonstrated proper soldering skills in a small lab setting

ISU Cyber Defense Competitions Support (2019-2023)

- Led new students through CDC introductions and onboarding steps during IASG club meetings
- Helped answer networking questions and made decisions regarding proper remediation techniques.
- Presented after-action reports to summarize lessons learned and new techniques used during the competitions.

SpookyCTF Volunteer (2022 & 2023)

- Organized and ran Spooky Capture the Flag for students at Iowa State.
- Wrote six unique web application challenges that ranged from simple injections to complex session hijacking attacks.
- Created detailed writeups for each challenge to encourage student learning after the event.

Science Olympiad CodeBusters Volunteer (2023)

- Developed Cryptograph tests for middle and high school divisions Science Olympiad competitions.
- Wrote questions involving ciphers from the following list:
  - Aristocrat, Pollux, Baconian, Affine, Caesar, Railfence, morbid, and others
- Provided detailed solution guides to students to foster an early interest in cyber security for students.