

Steff Bisinger

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github.com/regalcat

Education

Iowa State University

Ames, IA

Masters of Science in Information Assurance, GPA: 3.80/4.0

Aug 2016–May 2018

Cybercorp Scholarship for Service (SFS)

Major professor: Dr Doug Jacobson

Thesis: *A Rotational Moving Target Defense Solution for Web Servers*

Iowa State University

Ames, IA

Bachelor of Science in Software Engineering

Aug 2011–May 2016

Software skills

Linux OS Distributions: Debian, Ubuntu, CentOS, Fedora, Kali

Virtualization: VMWare vSphere, VMWare vCenter, Virtualbox, Esxi

Programming Languages: Python, Java, C, Scala, Erlang, Bash, HTML5, CSS, Javascript

Software Development: PyCharm, Eclipse, GCC, GDB, Git, Gitlab, Atlassian Jira

Penetration Testing: Wifi Pineapple, Bash Bunny, BurpSuite, Metasploit w/ custom modules

Databases/Data Analysis Tools: SQL, Splunk, Apache Hadoop, Apache HDFS, Apache Spark, ElasticSearch

Forensics/Analysis: Wireshark, IDAPro, Volatility, Bless(hex editor)

Web Application Frameworks: Django, Flask

Experience

Internet-Scale Event and Attack Generation Environment (ISEAGE) Lab

Ames, IA

Research Assistant, 10 hours/week, \$12/hour

Nov 2013–May 2018

The ISEAGE lab at Iowa State University hosts 5 cyber defense competitions at varying levels of education each year with the goal of offering students and professionals a safe environment in which to practice their security skills.

Detailed achievements:

- Rewrote the scoring systems availability testing functionality using Celery, a library for creating and managing worker processes, allowing the scoring system to better utilize server resources under heavy user load
- Organized Cyber Defense Competitions for ~100 student participants
- Created vulnerable applications to teach students participants about vulnerabilities and attack surface
- Customer service: Worked with participants to troubleshoot and resolve problems with vCenter, Apache, and a number of other technologies
- Evaluated participant systems for vulnerabilities as part of a team of 20+ industry professionals

Argonne National Laboratory

Research Assistant, 40 hours/week, \$24/hour

Lemont, IL

May 2017–Jan 2018

Detailed achievements:

- Implemented processes for using software configuration management and tracking issues and milestones for 2 research code bases in order to assure code quality
- Refactored and produced unit tests for a research code base to prepare it for production use
- Created graphics, research poster, and documentation for a project
- Co-authored a paper on a moving target defense solution for web servers

Rockwell Collins

Network Security Intern, 40 hours/week, \$20/hour

Cedar Rapids, IA

May 2016–Aug 2016

Detailed achievements:

- Customer Service: Worked with 25+ internal customers to upgrade two-factor authentication tokens
- Eliminated 30+ redundant firewall rules and installed and configured a web application for tracking firewall rules to enhance network security and performance
- Maintained ~5 scripts for gathering and analyzing firewall logs
- Customer service: Worked with internal customers around the world to install and maintain firewalls
- Advised on the selection of email solutions based on NIST special publications and FIPS documentation

Workiva

Security Intern, 40 hours/week, \$16/hour

Ames, IA

May 2015–Aug 2015

Workiva is a software startup that creates products that make SEC filings easy.

Detailed achievements:

- Performed risk and security assessments of internal web applications using tools like BurpSuite and custom Python code
- Developed a Flask web application for tracking success of company-wide security training
- Contributed code to fix bugs in the company's main product
- Gained experience with software lifecycle management tools such as Git and cloud platforms such as Google App Engine

Professional Development

BSides Iowa 2018 Capture the Flag(CTF) hosted by SecDSM: First place team. Challenges included lockpicking, steganography, and cryptography.

Wild West Hackin' Fest CTF Competition 2017: First place team. Challenges included lockpicking, steganography, and web application exploitation.

DEFCON Internet of Things Village CTF 2017: Competed and got on the board. Challenges included exploitation of wireless routers and NAS systems.

National Cyber Analyst Challenge: Hosted by Lockheed Martin, Leidos, and Temple University. Gained experience with advanced applications of Autopsy, Volatility, and Wireshark.

- Team mentor, finalist team 2018
- Finalist team 2016
- First place team 2015

Cyber Defense Competition: Hosted at Iowa State University by ISEAGE. Gained experience with Linux system administration, particularly Apache, Nginx, and FTP servers.

- Captain of first place team, Nationals 2014
- Captain of first place team, Fall 2013

Languages

English: Native speaker

Accomplished technical writer

Spanish: Intermediate

Russian: Novice

Four years of high school classes

One university course and some self study

Publications

A Rotational Moving Target Defense Solution for Web Servers.: In progress.

Outreach

FIRST Tech Challenge

Wifi/Field Technical Advisor

FIRST Tech Challenge is a program that teaches high school students problem solving and the engineering process through robotics challenges. I provided advice and assistance in troubleshooting connectivity problems between the Android phones used to control the robots.

USA Archery

Level 2 Coach

USA Archery's Junior Olympic Archery Development program prepares young archers to be competitive at a national and international level while teaching them respect, confidence, and self-awareness. As a coach, I provided encouragement and constructive feedback to archers in order to help them reach their goals.

Alburnett Archery, National Archery in the Schools Program

Assistant Coach

The National Archery in the Schools Program teaches archers grades 4 through 12 integrity and confidence.

Various locations, IA

Feb 2016–Mar 2018

Alburnett, IA

2013–2016

Alburnett, IA

2011–2013

Affiliations

CyberCorps Scholarship for Service: CyberCorps Scholarship for Service funds students pursuing degrees in the field of cybersecurity who then serve government entities. Iowa State's Cybercorps curriculum also includes four semesters of training in leadership and effective communication.

Information Assurance Student Group: Iowa State University's Information Assurance Student Group is a club that meets weekly to share cybersecurity knowledge. Through this group, I presented on topics such as SQL, wireless security protocols, domain fronting, and Bash programming.

SecDSM: SecDSM is a cybersecurity organization that gathers professionals from the area to network.

References

Professional	Character
<ul style="list-style-type: none">○ Dr Jim Davis○ Dr John Burnley○ Dr Ben Blakely	<div>Amongst others:</div> <ul style="list-style-type: none">○ Vance Patrilla, and○ Dr Jan Weirsema