

Steff Bisinger

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github.com/regalcat

Education

Iowa State University <i>Masters of Science in Information Assurance, GPA: 3.81</i> Cybercorp Scholarship for Service (SFS) Major professor: Dr Doug Jacobson	Ames, IA 2016–2018
Iowa State University <i>Bachelor of Science in Software Engineering</i>	Ames, IA 2011–2016

Experience

Professional.....

Rockwell Collins <i>Network Security Intern</i> Detailed achievements: <ul style="list-style-type: none">o Assisted in replacing and upgrading access token infrastructure.o Analyzed and cleaned up firewall rules.o Modified Perl scripts to aid in gathering and analyzing firewall logs.	Cedar Rapids, IA 2016–2016
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Workiva <i>Security Intern</i> Workiva is a software startup that creates products that make SEC filings easy. Detailed achievements: <ul style="list-style-type: none">o Assessed the security of internal web applications using tools like BurpSuite and custom Python code.o Assisted with company-wide security training by developing a tool for visualizing the performance of individual employees in previous trainings.o Contributed code to fix minor bugs in the company's main product.	Ames, IA 2015–2015
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Research.....

ISEAGE Lab, Iowa State University <i>Research Assistant</i> 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: <ul style="list-style-type: none">o Rewrote the scoring system's availability testing functionality using Celery, a library for creating and managing worker processes. This allows the scoring system to better utilize server resources under heavy load.o Directed the 2015 National Cyber Defense Competition.o Created vulnerable applications for Cyber Defense Competitions.o Led Red Team in attacks against Blue Teams' systems.o Led Green Team in assessing the usability of Blue Teams' systems.	Ames, IA 2013–2018
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Argonne National Laboratory

Research Assistant

Lemont, IL

2017–2018

Detailed achievements:

- o Implemented processes for using software configuration management for the group's research code bases. This will help the group get their code ready to be used in a production environment and continue to assure that the code is of acceptable quality as new features are added.
- o Transform a research code base into production-ready code by auditing it, refactoring the code, and adding unit tests.
- o Create graphics and research poster for a project.
- o Co-authored a paper on a moving target defense solution for web servers.

Software skills

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

Software Development: PyCharm, Eclipse, GCC, GDB

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, Volatility, IDAPro

Web Application Frameworks: Django, Flask

Professional Development

Wild West Hackin' Fest Capture the Flag Competition 2017: First place team

DEFCON Internet of Things Village Capture the Flag Competition 2017: Competed and got on the board.

National Cyber Analyst Challenge: Hosted by Lockheed Martin, Leidos, and Temple University

- o Team mentor 2018
- o Finalist team 2016
- o First place team 2015

Cyber Defense Competition: Hosted at Iowa State University by ISEAGE

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

Languages

English: Native speaker

Spanish: Intermediate

Four years of high school classes

Russian: Novice

One university course and some self study

Publications

Polymorphic Rotational Web Server A Moving Target Defense Solution.: In progress.

Outreach

FIRST Tech Challenge

Various locations, IA

Wifi/Field Technical Advisor

2016–2018

FIRST Tech Challenge is a program that teaches high school students problem solving and the engineering process through robotics challenges.

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.

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.

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.

Information Assurance Student Group: Iowa State University's Information Assurance Student Group is a club that meets weekly to share cybersecurity knowledge.

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

References

Professional

- o Dr Jim Davis
- o Dr John Burnley
- o Dr Ben Blakely

Character

- Amongst others:
- o Vance Patrilla, and
 - o Dr Jan Weirsema