

# Steff Bisinger

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github.com/regalcat

## Education

<b>Iowa State University</b> <i>Masters of Science in Information Assurance and Computer Engineering, GPA: 3.81</i> Specialization in Secure and Reliable Computing Major professor: Dr Doug Jacobson	<b>Ames, IA</b> 2016–2018
<b>Iowa State University</b> <i>Bachelor of Science in Software Engineering</i>	<b>Ames, IA</b> 2011–2016

## Experience

Research.....

<b>Argonne National Laboratory</b> <i>Research Assistant</i> Argonne's COAR group is a team of researchers dedicated to making advancements in the field of cybersecurity. Detailed achievements: <ul style="list-style-type: none"><li>◦ Implement code quality controls 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.</li><li>◦ Transform a research code base into production-ready code by auditing it, refactoring the code, and adding unit tests.</li><li>◦ Create graphics and research poster for a project.</li><li>◦ Co-authored a paper on a moving target defense solution for web servers.</li></ul>	<b>Lemont, IL</b> 2017–2018
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<b>ISEAGE Lab, Iowa State University</b> <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"><li>◦ 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.</li><li>◦ Directed the 2015 National Cyber Defense Competition.</li><li>◦ Created vulnerable applications for Cyber Defense Competitions.</li><li>◦ Led Red Team in attacks against Blue Teams' systems.</li><li>◦ Led Green Team in assessing the usability of Blue Teams' systems.</li></ul>	<b>Ames, IA</b> 2013–2018
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Professional.....

## Rockwell Collins

Cedar Rapids, IA

Network Security Intern

2016–2016

Detailed achievements:

- 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.

## Workiva

Ames, IA

Security Intern

2015–2015

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

Detailed achievements:

- 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.

## 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**

*Wifi/Field Technical Advisor*

**Various locations, IA**

*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*

**Alburnett, IA**

*2013–2016*

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*

**Alburnett, IA**

*2011–2013*

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

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