

Addy Moran

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Programming isn't about what you know; it's about what you can figure out. —
Chris Pine



Education

- Bachelor's in Science, Colorado State University, Major in Computer Science and a Minor in Mathematics, May 2018

Tool Suite

- Security Clearance: Secret Interim
- Programming Languages: Java, Python, C/C++, Unix, LaTeX, UML, SQL, HTML/CSS, JavaScript, SQL
- Full Stack Web Development
 - Python: Flask, CherryPy

- JavaScript: Node.JS, ExpressJS
- Front End Frameworks: Bootstrap, Materialize
- Procedures: Scrum, Agile, and Test Driven Development
- Virtualization Tools: VirtualBox, VMWare, CypherPath
- DevOps: Docker
- Version Control: Git
- Team Communication Tools: Slack, Trello, Skype

Work Experience

- Raytheon
 - Cyber Threat Analyst, June 2019 - Current
 - Proactively search for cyber attacks and gaps in security measures by leading hunts, acting as a Threat Hunting SME, and by developing training.
 - Software Engineer, May 2018 - June 2019
 - Principle Investigator for an adaptive intrusion detection system for use in embedded communication protocols
 - Prototyped a satellite data reduction algorithm that finds interesting patterns within TLE data
 - Participated in a cyber rotation program (was one of the engineers chosen from Raytheon's four business units)
 - Training
 - Built MIL-STD-1553B and MIL-STD-1760 curriculum for an internal embedded security course.
 - Built cyber curriculum for interns and entry level engineers
 - Raytheon CODE Center
 - Conducted Red Hat and Windows hardening exercises
 - Managed automated patch management project where we used machine learning to prioritize required system and application patches
 - Worked with internal Raytheon programs to test for cyber resiliency and provided suggestions on ways to mitigate potential attacks
 - Cyber Security Engineer Intern, January 2017 - May 2018
 - Avionic Security Network Mapper
 - Designed and implemented databases (used SQLite)
 - Used Python's Flask to create intuitive user interface
 - Researched known avionic vulnerabilities
 - Assisted in program planning by writing and proofreading system requirements,

- budget documents, program proposals, and project demonstration documentation
 - Received a patent for our solution
- GPS
 - Aided in securing systems by writing and deploying hardening scripts (using Chef)
 - Deployed system and application patching to classified and unclassified systems
 - Helped prepare material for weekly cyber security class
 - Wrote a Python program that looks for classified keywords in documents to help prevent data spills
- Colorado State University
 - Research Assistant, September 2016 - January 2018
 - IoT Penetration Testing
 - Created Raspberry Pi network monitor for device classification and security vulnerabilities
 - Analyzed network traffic for vulnerabilities
 - Statically and dynamically analyzed device firmware
 - Wrote a Python script that pulls network data and puts the data into a logical structure to help during analysis.
 - Created websites for finished research projects
 - Wrote Python scripts to test the quality of transferred medical data
 - Teaching Assistant, January 2016 - January 2018
 - Taught students concepts in Java, Python, HTML, CSS and UNIX
 - Coordinated review sessions and create study material to break down complex information into more manageable sections
 - Assisted professors with curriculum by creating and critiquing homework and labs assignments

Patents & Awards

- Filed provisional patent for exploiting the hacking process to secure embedded protocols, September 2019
- Filed patent for avionic component identification algorithm, September 2019
- Received 2nd place in the Undergraduate Poster Competition at WiCyS, March 2017

Certifications

- [Certified Ethical Hacker](#)
- [Part 107 Commercial Drone Pilot](#)

Volunteer

- [TraceLabs](#), August 2019 - Present
- Denver Metro Science and Engineering Fair, February 2019
- Girls Day at the Aurora Boys & Girls Club, February 2019

Activities/Presentations

- Will be presenting on "Exploiting Your Digital Footprint" at the Women in Cyber Security (WiCyS) conference in March 2020
- Presented [Hacking Your Day-To-Day Tavel](#) at the Women in Cyber Security Conference (WiCyS), March 2019
- Presented on automated patch management at the Ground System Architecture Workshop (GSAW), February 2019
- Presented a [poster on gathering location data from an Android device](#) at WiCyS, March 2017
- Participated on the White Team at the Rocky Mountain Collegiate Cyber Defense Competition (RMCCDC), March 2017
- Presented on [the Security of Internet of Things \(IoT\) poster](#) at Rocky Mountain Celebration of Women in Computing, September 2016

Personal Projects

- [Android Information Gathering Tool](#) is a tool that gathers and sends location from an Android phone to a user interface. Presented at the Women In Cyber Security Conference in 2017.
- [CarMD](#) is a web interface that helps people understand OBD-II error codes. Node.JS, ExpressJS, SQLite, and Python were used to consolidate and display the relevant information to the user.
- [Facial Recognition Home Security Tool](#) uses facial recognition to detect a home intruder. This project was completed as part of my operating systems class at Colorado State University.

Publications

- [Steganography Poster](#)
- [Hacking Your Day-To-Day Travel](#), Presented at Women in Cyber Security, 2019
- [Android Information Gathering Tool](#), Presented at Women in Cyber Security, 2017
- [IoT Security Poster](#), Presented at Rocky Mountain Celebration of Women in Computing, 2016

Web Design Portfolio

Wix/Weebly

- [Custer County Realty](#)
- [Pulcinella Pizzeria](#)

HTML/CSS

- [Backcountry Perspective Photo & Video, LLC](#)

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