Addy Moran

Table of Contents

ıcation	1
ol Suite	1
rk Experience	2
ents & Awards	3
tifications	
unteer	4
ivities/Presentations	4
sonal Projects.	4
olications	4
tfolio	
Web Design	4
wnload	5

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



Education

- Master's in Computer Science, Arizona State University, May 2021
- 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 Devleopment
- Virtualization Tools: VirtualBox, VMWare, CypherPath
- 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
 - Received a patent for avionic component identification algorithm
 - Assist in program planning and documentation
 - Design databases to assist in machine learning algorithms
 - Implement additional features to improve user experience
 - Researched known avionic vulnerabilities

- Assisted in program planning by writing and proofreading system requirements, budget documents, program proposals, and project demonstration documentation
- Designed a database schema and created UML diagrams to reflect the schema
- Created the database and wrote database wrapper classes to assist in full stack development
- Assisted in full stack development to provide intuitive and easy to read results from the avionic data bus device mapping

GPS

- Aided in securing systems by writing and deploying hardening scripts
- 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 analyzing 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
 - Teach students concepts in Java, Python, HTML, CSS and UNIX
 - Coordinate review sessions and create study material to break down complex information into more manageable sections
 - Assist 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

- 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

- Facial Recognition
- Geolocation

Publications

- Steganography
- Hacking Your Day-To-Day Travel
- IoT

Portfolio

Web Design

Wix/Weebly

- Custer County Realty
- Pulcinella Pizzeria

HTML/CSS

• Backcountry Perspective Photo & Video, LLC

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