Dalton Cole

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Objective

To obtain a year-round intern position at Sandia National Laboratories in Computer Science or Cybersecurity

Education

Missouri University of Science and Technology — May 2020
Ph.D. Computer Science — **GPA: 3.92/4.0**

Missouri University of Science and Technology — May 2019
M.S. Computer Science — **GPA: 3.92/4.0**

Missouri University of Science and Technology — May 2016
B.S. Computer Science — **GPA: 3.83/4.0**
Minor: Computer Engineering & Mathematics

Experience

Sandia National Laboratories — Albuquerque, NM
Cybersecurity Intern — Summer 2017 - Present
- Created a Laika BOSS module to filter out metadata
- Applied machine learning to find correlations between source code and binary
- Created emulytics software using C for the 1553 data bus protocol
- Designed and implemented a graph labeling attack algorithm
- Developed Python libraries in C++ for more efficient software
- Analyzed network data using Bro and machine learning

Cybersecurity Training — January 2016/17/18/19
- Employed Metasploit to break into Windows Machines
- Used IDA Pro to reverse engineer malware
- Mapped out network topography using nmap and Netmeld

Cerner — Kansas City, MO
Software Engineering Intern — Summer 2016
- Created a Ruby On Rails web application with added security features
- Provided live demos weekly to management

Missouri University of Science and Technology — Rolla, MO
Evolutionary Computing — Fall 2017
- Created a Multi-Objective Evolutionary Algorithm for the Cutting Stock Problem
- Applied a Coevolutionary Genetic Algorithm to the Prisoner's Dilemma Problem

Introduction to Artificial Intelligence — Spring 2016
- Programmed a chess AI using Time-Limited ID-DFS MiniMax with alpha-beta pruning and Quiescence Search
- Implemented different searching techniques such as BFS, ID-DFS, and A*

Object-Oriented Numerical Modeling I — Spring 2016
- Designed abstract data types to represent the basic building blocks in mathematics
- Optimized C++ code for run time and reusability

Computer Networking — Fall 2015
- Created a peer to peer file sharing program for Unix based systems
- Implemented networking protocols using Python

Computer Skills

Advanced:	C++	Python						
Proficient:	Java	Ruby	LaTeX	SQL	Linux	Ruby on Rails		
	Assembly	Nmap	Git	MATLAB	Javascript	Kali	Wireshark	

Honors & Activities

Scholarship For Service (SFS) Recipient
Association for Computer Machinery - **President**, **Secretary**
ACM Programming Competition - **Chair**
Cyber Defense Team - Member
Computer Science Department Leadership Award