Dalton Cole

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Objective — To obtain a year-round internship at Sandia National Laboratories in Cybersecurity

Education

Missouri University of Science and Technology — May 2019
Ph.D. 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 meatmdata
- 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

Cybersecurity Training — January 2016/17/18
- Employed Metasploit to break into Windows Machines
- Used IDA Pro to reverse engineer malware

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	Ruby	Java			
Proficient:	LaTeX	SQL	Linux	Windows	Mac OS X	Ruby on Rails	PuTTY
	Assembly	Nmap	Git	MATLAB	Javascript	Kali	Wireshark
Learning:	Metasploit						

Honors & Activities

Scholarship For Service (SFS) Recipient
Association for Computer Machinery - **President**, **Secretary**
Computer Science Department Leadership Award
Cyber Defense Team - Member
ACM Programming Cometition - **Chair**
Downtown Hall Association - **Vice President**
Institute of Electrical and Electronics Engineers - Member
Associated Students of the University of Missouri - **Programing Coordinator**
History Club - **Vice President**
Collegiate Eagle Scout Association - **Vice President**