## Dalton Cole

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drcgy5@mst.edu To obtain a full time position at Sandia National Laboratories in Computer Science or Objective Cybersecurity while continuing my pursuit of a Ph.D. 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 Kansas City, MO Cerner 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 Advanced: C++Python Skills Proficient: Java Ruby SQLLinux Ruby on Rails IATEX. Git MATLAB Assembly Nmap Javascript Kali Wireshark Scholarship For Service (SFS) Recipient Honors &

> Cyber Defense Team - Member Computer Science Department Leadership Award

ACM Programming Competition - Chair

Association for Computer Machinery - President, Secretary

Activities