FOSTER MCLANE

INFORMATION SECURITY ANALYST

ABOUT

I am a computer enthusiast and enjoy almost everything to do with computers, from low-level logic circuits to high-level programming. I am especially interested in embedded programming, operating systems, program security, network security, and network protocols. In addition to my computer enthusiasm, I have a large interest in high school level education in computational thinking.

WORK EXPERIENCE

Clemson University
https://ccit.clemson.edu/cybersecurity/operations-center/
December 2017 – Present

Information Security Analyst

Under the Office of Information Security and Privacy, I am a full-time analyst of Clemson's computer network for identifying potential cyber security threats, mitigating current threats, and preventing current threats from happening in the future.

FoosterNET, LLC
https://fooster.io/
November 2013 – Present

Owner

FoosterNET, LLC is a company I use for freelance work in cyber security consulting, system administration, and computer programming. It additionally sanctions all other services I provide for money including server hosting.

Clemson University
https://ccit.clemson.edu/cybersecurity/operations-center/
January 2017 – December 2017

Cybersecurity Intern

Under the Office of Information Security and Privacy, I was a part-time analyst of Clemson's computer network for identifying potential cyber security threats, mitigating current threats, and preventing current threats from happening in the future.

Clemson University
January 2017 – May 2017

Virtual Reality Intern

Under Dr. Stephen Moysey, I worked to bring virtual reality to the university in a variety of ways including setting up VR systems, coordinating generally available VR equipment for students and faculty, and creating demos for VR.

Clemson University
January 2016 – December 2016

Virtual Reality Game Development Intern

Under Dr. Stephen Moysey, I researched teaching applications of geological sciences field techniques in a virtual reality video game. The game, titled Virtual Reality Field Experiences, features a trip to the Grand Canyon where the gamer learns rock identification techniques and builds the stratigraphic column of the canyon.

Clemson University
http://people.clemson.edu/~yue6/
January 2015 – May 2016

Undergraduate Student Researcher in UAV and Manufacuring Robotics

Under Dr. Yue Wang, I researched quadrotor control algorithms and trust aware manufacturing in the Interdisciplinary Intelligence Research Lab, or I²R Lab.

CONTACT

423 Lindsay Rd. Apt. 404
Clemson, SC 29631 US

(919) FOOSTER

fkmclane@gmail.com

https://fooster.io/

GitHub
fkmclane

EDUCATION

2019 2014

Clemson University

Bachelor of Science

Computer Science, with an interest in Education, Math, and Language

2014 2012

SC Governor's School for Science and Mathematics

High School

Computer Science

AWARDS

July 2019

Global Information Assurance Certification

GIAC Network Penetration Testing Certification (GPEN)

The certification signifies a demonstrated knowledge of penetration testing techniques and tools.

January 2019

Global Information Assurance Certification

GIAC Certified Intrusion Analyst (GCIA)

The certification signifies a demonstrated knowledge of intrusion detection techniques as an information security analyst.

VOLUNTEER

GIAC Advisory Board
https://www.giac.org/certified-professionals/advisory-board
January 2019 – Present

Member
After completing my GCIA certification from GIAC, I've been invited to the GIAC Advisory Board which takes an active role in the GIAC program and in SANS training.

CU Cyber
https://cucyber.net/
April 2018 – Present

Staff Advisor
CU Cyber is the cyber security club at Clemson University. We participate in cyber defense competitions and hold weekly seminars involving cyber security. I am one of the staff advisors of CU Cyber where I advocate for the club, provide technical resources and knowledge, architect the Cyber Warfare Space, and maintain domain names and servers for the club.

SC Robotics Education Foundation
http://scref.org/
January 2015 – Present

Field Technical Advisor and Field Inspector
After three years of experience of participating in the FIRST Tech Challenge robotics competition, I volunteer to run the scrimmage hosted by the SC GSSM and am the main technical coordinator for the state competition.

CU Rocket Engineering
January 2017 – August 2018

Lead Avionics
As lead avionics, I coordinated the team that created the electronic internals of the rockets we flew at the Intercollegiate Rocket Engineering Competition. I did a lot of the design work and kept the team productive.

CU Cyber
https://cucyber.net/
August 2015 – April 2018

Level 5 Tech Support
CU Cyber is the cyber security club at Clemson University. We participate in cyber defense competitions and hold weekly seminars involving cyber security. I was the secretary and then Level 5 Tech Support of CU Cyber where I maintained club organization, club preparation, and various technological aspects. I additionally helped create many of the weekly seminars given.

Clemson ACM
https://www.cs.clemson.edu/acm/
September 2014 – January 2017

Webmaster
ACM, the Association for Computing Machinery, is the world's largest society for scientific and educational computing. I was the webmaster of Clemson University's local chapter where I created and maintained their website.

SKILLS

Programming — Master
C · C++ · C# · Python · JavaScript · Java · PHP

Unix Administration — Master
Website Deployment · Virtual Machines · Networking · General Services · RedHat Enterprise Linux · Ubuntu · Arch Linux · Gentoo Linux · Debian · FreeBSD

Network Security — Proficient
Cisco · Palo Alto · pfSense · Endian · UniFi

Web Development — Proficient
HTML5 · CSS3 · JavaScript · Bootstrap · PHP · Python · Django

Documentation — Proficient
LaTeX · Markdown · VimWiki

PUBLICATIONS

Trust-Based Mixed-Initiative Teleoperation of Mobile Robots

American Control Conference
06 July 2016
https://doi.org/10.1109/ACC.2016.7526640

Trust-Based Mixed-Initiative Teleoperation of Mobile Robots is a scheme for the bilateral teleoperation of mobile robotic systems using a quadrotor, ground robot, and a haptic feedback device. In the scheme, control is shared between human and autonomous controllers with the human controller having force feedback cues. Two-way trust models are calculated to dynamically scale each control input for optimal performance and reduced physical workload of the human operator. The results indicate that the proposed scheme improves task performance by 31% and reduces the operator workload by 23.9%.

LANGUAGES

English	Native
French	Elementary Proficiency
Japanese	Learning