

# API SERVER PENTEST

CIS 497 - SENIOR PROJECT  
SPRING 2018

Our team will attempt to find security vulnerabilities in the API servers that were coded in the 1<sup>st</sup> phase. Our mission is to use static analysis and dynamic analysis to identify any vulnerabilities in these servers. Once we find a vulnerability we will need to keep detailed notes of the process and report back to the competition holder. If our description does not allow the judges to reproduce our finding then we will not be given credit for it. We are restricted in the systems that we can attack. Only the API server endpoints are targetable and not any of the host systems like operating system (OS), database management system (DBMS), or network stack can be attacked for vulnerabilities.

## STAKEHOLDERS

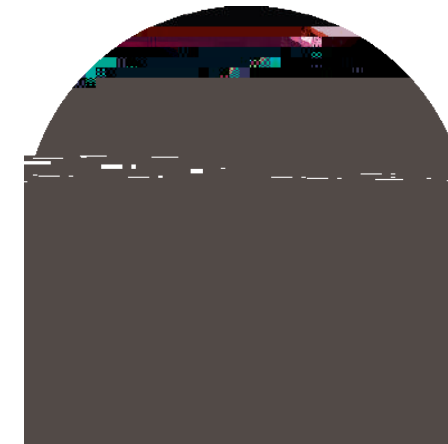
Dr. Todd McDonald  
Professor, USA

Dr. Matt Campbell  
Assistant Professor, USA

Dr. Scott Sittig  
Assistant Professor, USA

## CLIENT

J. Shapiro  
Capital Consulting Corporation

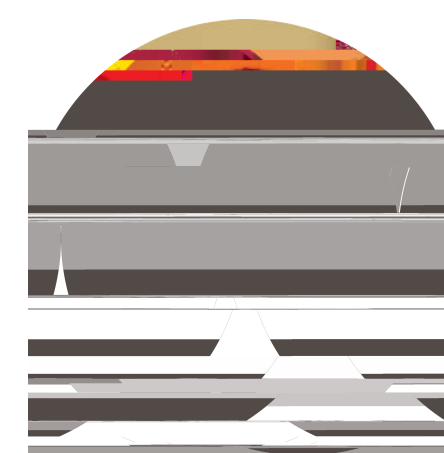


## ALEX MULLINS

I am a Computer Science major that is interested in cryptography, cyber security, and low level/embedded systems. I am a member of the school's DayZero club and will be joining the CCDC team for the competition this year. My favorite alcoholic drink is rum and coke.

## DEVIN HARNES

My name is Devin Harnes, born and raised in Mobile, Alabama in an extreme poverty stricken environment. With the support of my family, I was able and willing to take any opportunity to learn and make the most of myself. With the passing of my mother at eight years old, my dedication became solidified as I ventured into being the first person in my family history to graduate college and lead a path for the future for my 11 younger siblings.



## ADAM GAUTIER

CS major interested in embedded systems, secure programming, and hardware-based protection. Enjoys exploring the outdoors, cooking dinner, and solving problems. Will faithfully serve the United States after graduating with his master's degree.

## CHRISTIAN SALES

I am a Computer Science major who is interested in pursuing a career in software engineering. My dream is to one day solve a problem.