

Benjamin Carothers

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EDUCATION

NEW COLLEGE OF FLORIDA

BA IN COMPUTER SCIENCE
Expected May 2017 |
Sarasota, FL

THESIS

VICTOR: BUILDING
MONITORED, SECURED, AND
SELF-SUSTAINING IOT
HYDROPONIC GARDENS
Expected May 2017

LANGUAGES

PROFICIENT

Python, JavaScript, Node,
HTML, CSS, SQL

EXPERIENCE

C, Java, PHP, Mongo, Bash

FRAMEWORKS

WEB

Angular, Express, Serverless,
Passport, Bootstrap

TOOLS

Nmap, Shodan, Burp, Unix,
Docker, SwaggerIO

AWARDS

USCC CTF Winner
AFFIRM Security Summit
Invitee

VOLUNTEERING

Hour of Code Initiative
US Cyber Challenge
Ocean Technology Club

LINKS

Github:// [btcrs](#)
LinkedIn:// [btcrs](#)

EXPERIENCE

MOTE MARINE LABORATORY | OCEAN TECHNOLOGY TEACHER

February 2017 - Present | Sarasota, FL

- Sourced components to build a field datalogger based on the Arduino platform.
- Created a build log and developed a curriculum to help teach high school students how microprocessors operate, embedded programming, and low-level communication.

CYBER NINJAS | CYBER SECURITY INTERN

January 2016 - Present | Sarasota, FL

- Play a significant role in red team engagements. Handle information gathering, exploitation of relevant, high-impact vulnerabilities, and reporting of findings.
- Create single-page, self-contained web applications to teach current topics in cyber security including XSS, SQL Injection, and Session Fixation.

MOTE MARINE LABORATORY | SOFTWARE ENGINEERING INTERN

January 2016 - January 2017 | Sarasota, FL

- Created a Python library and scripting engine to control the BB4 Optical Phytoplankton Discriminator.
- Oversaw IOT security to secure both the administration application and BB4 devices.

STAR2STAR | SOFTWARE ENGINEERING INTERN

October 2015 - December 2015 | Sarasota, FL

- Created a work flow for providing partners with requested reports using IPython scripts to interface with CPQ and construct canned reports locked down by ACLs
- Altered the quote generation business logic to reduce the number of switches included and sent to any given location by as much as 50 percent.

INTENSIVE AIR AMBULANCE | WEB DEVELOPER

Jan 2011 - May 2013 | Sarasota, FL

- Maintained quoting software written in PHP that was integral to day-to-day function and touched 70 percent of all revenue generating operations.
- Developed a suite of tools to programmatically generate contracts.

PROJECTS

PORTER | REPORTING ENGINE

Jan 2016 - Present

A framework for interfacing with common penetration testing tools to automate the process of reporting findings. Used Python and a DOCX templating engine to bootstrap long term engagement reports by using Metasploit's SQL database, CSV output from Nessus, and flat file input.

BUCKETS | JUDGING NBA LINEUPS BY FLOOR COVERAGE

Aug 2016 - Dec 2016

Constructed the strongest offensive five man lineups using current (2015 - 2016) starting NBA players. Using the NBA player's data API I wrote a Node program that gathered every attempted shot taken during the 2015-2016 season, determined each players shooting average for 12 spatial zones of the scoring area, and tried to pair players that occupied most of the court with strong shooting.