

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

PINE VIEW HIGH SCHOOL

Grad. May 2013 | Osprey, FL

COURSEWORK

UNDERGRADUATE

Computer Architecture
OOD Patterns in Java
Data Structures and Algorithms
Embedded Programming
Data Mining
Ethical Hacking
Discrete Mathematics
Computer Security and
Cryptography
Computer Networks
Software Engineering

AWARDS

USCC

Invited to the 2016 US Cyber
Challenge Western Regional
Cyber Camp And
Won the Department of
Homeland Security Science and
Technology Directorate
Supported USCC CTF Event

VOLUNTEERING

Hour of Code Initiative
US Cyber Challenge

LINKS

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

SKILLS

LANGUAGES

Experienced: Python • Javascript • Node • HTML/CSS
Familiar: C • Bash • SQL • PHP • Java

FRAMEWORKS

Flask • Angular • Bootstrap • Sphinx • Express • Passport

TOOLS

Burp • Nmap • Vim • Shodan • Unix • Git • Docker • Rancher • Atom

EXPERIENCE

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 - Present | Sarasota, FL

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

STAR2STAR | SOFTWARE ENGINEERING INTERN

October 2015 - December 2015 | Sarasota, FL

- Created a workflow 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 integrating with common penetration testing tools to automate the process of reporting findings. Uses Python and Python-Docx while interfacing with Metasploit, Nessus, and flat file input.

DRIPPY | DRIP IRRIGATION GARDEN MONITOR

Aug 2015 - Dec 2015

A Python program that lives on a Raspberry Pi used to water my gardens. A listener repeatedly polls a Twitter feed looking for control statements. If it finds one, it opens a solenoid valve for the specified amount of time allowing water to flow to the garden.