NICHOLAS HARRAS

201-317-2212 • nickharras1@gmail.com • github.com/harras

EDUCATION

Rutgers University

New Brunswick, NJ

B.S. in Computer Science

August 2018

• Related Coursework: Linear Optimization, Computer Security, Databases, Internet Technology, Systems Programming, Algorithms, Principles of Programming Languages, Intro to A.I., Computer Architecture, Discrete Structures I/II, Linear Algebra, Calculus I/II, Data Structures

PROJECTS

OpenSSL Message Board Project

Client and server programs written in **Python** designed to emulated how TLS encryption/decryption works. Also quickly models good password storing practices.

- Utilizes the SSL, Socket, Threading, and HashLib Python modules
- Sets up a secure connection before encrypting/decrypting any packets via RSA keys and certificates
- Tests user credentials against salted password hashes

Protostar Exploits Assignment

Practiced finding and exploiting insecure C functions using Python scripts and GDB

- Worked in a virtual Linux environment in VirtualBox
- Disassembled compiled C programs in GDB
- Practiced writing simple scripts to help manipulate memory

"BuyMe Shop" Databases Project

EBay-inspired database model, built with an AWS MySQL server and JSP webpages

- Modeled a database schema that suited our given needs, then built it in MySQL, hosted on AWS
- Worked with HTTP methods so webpages could communicate with each other
- Ran various QA tests and bugfixes against user inputs

EXPERIENCE

SEMGeeks

Belmar, NJ

Web Development Intern

September - December 2017

- Worked closely with web developers and designers to help create websites for small businesses
- Utilized WordPress and HTML/CSS in a professional setting
- Researched malicious PHP scripts that had stolen client information using steganography

CAMPUS ACTIVITIES

Undergraduate Student Alliance of Computer Scientists

Piscataway, NJ

Mentor/Member

September 2016 - June 2018

- Taught a group of four CS students the basics of Bash, Git, as well as data structures and other CS concepts
- Offered guidance to CS students with respect to clubs to join, topics to explore, textbooks to read, etc.
- Assisted computer science first-years with their coursework

HackRU

Piscataway, NJ

Volunteer May 2017

Assisted competitors throughout the event as a technical advisor, specifically regarding Python and Java

SKILLS

- Programming Languages: Proficient in Python, C, and Java; Familiar with C++, JavaScript, and Lisp (Scheme)
- Technology and Software: Git, GDB, VIM, Nmap, WireShark, VirtualBox, MySQL, JSP, AWS (RDS and EC2), WordPress, HTML/CSS, LATEX