

NICHOLAS HARRAS

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EXPERIENCE

National Oceanic and Atmospheric Administration

Princeton, NJ

Computer Operator

June 2019 - present

- Utilizing **Slurm** to maintain a variety of on and off-site HPCs
- Wrote **Python** scripts to automate maintenance tasks
- Developed **Python** scripts to perpetually feed HPC statistics an **InfluxDB** database, in order to represent the data more easily with **Grafana**
- Gained experience working in a Help Desk ticketing system

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

SKILLS

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

PROJECTS

Splunk Virtual Machine Lab (in progress)

Oracle VM VirtualBox network lab being built to learn the network requirements for setting up a SEIM, as well as the basics of practically using **Splunk**.

OpenSSL Message Board Project

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

AWS Databases Project

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

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

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**