Chris Cohen

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🐙 https://github.com/cohenchris

EDUCATION

August 2017 – Present

Bachelor of Science (Software Engineering and Cybersecurity)
Purdue University in West Lafayette, IN
- 3.83 GPA
- 6x Dean's List   5x Semester Honors

WORK EXPERIENCE

May 2020 – Present

Embedded Software Engineering Intern
Qualcomm, QGOV Division
- TBD

May 2019 – August 2019

Software Engineering Intern
Naval Surface Warface Center, Crane Division
- Improved US Navy missile sustainment efforts by upgrading an existing natural language processing algorithm to process failure databases.
- Held a valid 'secret' level security clearance given by the US Government.

TECHNICAL SKILLS

Programming Languages

C   C++   Python   ARM/x86 Assembly   Bash   Javascript

Notable Classes Taken

Computer Architecture   Data Structures and Algorithms   Systems Programming
Operating Systems (with XINU OS)   Computer Networks

Relevant Knowledge

- Systems Programming
    - Inter-Process Communication
    - Concurrency and Parallelism (Semaphores, Locks, Forking, Threading)
- Memory Management
    - Paging and Virtualization
    - Cache Memory Hierarchy
    - Stack and Heap Management
- Operating Systems
    - Process Scheduling and Synchronization
    - Software/Hardware Interrupts and Device Management with DMA
    - System Call Conventions (with hadware and software support)
    - Asynchronous IPC (specifically callback function handling)
- OSI/ISO Model
    - UDP, TCP, methods for reliable data transport
    - IP addressing/routing, DHCP, and DNS translation
    - ARP, MAC Addressing, Multiple-access protocols for link-layer
    - Basic cryptography and security approaches

PROJECTS

April 2020

Web Server Honeypot (Extracurricular)
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March 2020

Process Hijacking
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September 2019 - October 2019

Shell
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