



# Chris Cohen

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## EDUCATION

Aug. 2017 – Present

### Bachelor of Science at Purdue University

- Software Engineering and Cybersecurity
- 7x Dean's List, 6x Semester Honors
- **3.81 GPA**

## EMPLOYMENT

May 2020 – Present

### Qualcomm, QGOV Division

#### *Software Engineering Intern*

- Developed an Android app for a Qualcomm chipset feature that ensures secure wireless connection, communicating information about malicious access points to the user.
- Innovated an AI-powered system that processes media from non-AI devices, and plots important objects onto a map.

May 2019 – Aug. 2019

### Naval Surface Warfare Center, Crane Division

#### *Software Engineering Intern*

- 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.

## EXPERTISE

Languages	C	C++	Python	ARM/x86 Assembly	Bash	Javascript
Memory Management	• Paging, Virtualization					
OS and Systems Programming	• Cache Memory Hierarchy					
OSI/ISO 7-Layer Model	• Stack and Heap Management for ARM/x86					
	• Software/Hardware Interrupts and Device Management					
	• Asynchronous Inter-Process Communication (IPC)					
	• Return-Oriented Programming (ROP)					
	• Concurrency and Parallelism (Semaphores, Locks, Forking, Threading, Scheduling)					
	• TCP, UDP, HTTP					
	• IP addressing/routing, DHCP, DNS translation					
	• MAC addressing/routing, ARP					
	• Basic cryptography and security approaches					

## PROJECTS

April 2020

### Web Server Honeypot (Extracurricular)

- Hosted an HTTPS Honeypot Server to lure attackers and collect information
- Automatic blacklisting for clients sending excessive requests in a short period of time
- Analyzed logs and learned about different types of attacks on web servers

March 2020

### Process Hijacking in XINU (Operating Systems)

- Manipulated a victim process by locating and modifying return addresses and local variables in the runtime stack
- Learned about protection against this sort of attack (i.e. stack canaries)
- Studied how x86 interrupts, system calls, and function calls affect the runtime stack

Sept. 2019 – Oct. 2019

### Shell Interpreter in C (Systems Programming)

- Parsing and execution of commands
- Signal handling and inter-process communication
- Subshell execution via forking