

Andrew C. Chu

CONTACT INFORMATION	chu108@purdue.edu andrewccchu.github.io	
CITIZENSHIP	United States of America	
EDUCATION	B.S., Computer Science , Purdue University, West Lafayette, IN, USA G.P.A.: 3.57/4.00	December 2020
EMPLOYMENT	R&D Intern (DOE L Clearance) — Sandia National Laboratories Albuquerque, NM, USA	June 2014 – Present
	Configured a virtualized environment comprised of 27 virtual machines using VyOS, and the Xen hypervisor for use in Blue Team training simulations	
	Developed forensic incident response exercises focused on the areas of web vulnerabilities, macOS exploitation, privilege escalation, and remote code execution	
	Replicated and visualized Open vSwitch (OVS) vulnerabilities affecting the OVS megaflow cache on a virtualized SDN cluster environment	
	Implemented updates to an internal yarGen Yara rule classification tool to improve runtime efficiency and practical accessibility	
PROFESSIONAL ACTIVITIES	Host — Purdue Old Masters West Lafayette, IN, USA	September 2018 – November 2018
	One of 50 out of over 30,000 undergraduate students selected to organize community outreach between various student organizations on campus, in an effort to promote discussion of diversity, inclusion, and representation	
	Vice President, Programming and Education — Purdue Interfraternity Council West Lafayette, IN, USA	November 2017 – November 2018
	Coordinated trainings, programs, and conferences with fraternity/sorority relevant industry professionals in efforts to educate over 6,500 Greek community members	
PUBLICATIONS	Articles in peer-reviewed conference proceedings 1. Andrew C. Chu , Muslum Ozgur Ozmen, Z. Berkay Celik. “The Wild West of Dropshipping - Characterization and Detection of Fraudulent e-Commerce Vendors.” <i>Pending</i> — <i>Proceedings of Network and Distributed System Security Symposium (NDSS)</i> , 2021 2. Muslum Ozgur Ozmen, Xuansong Li, Andrew C. Chu , Z. Berkay Celik, Bardh Hoxha, Xiangyu Zhang. “Towards Compositional Safety and Security Reasoning in Physical Spaces.” <i>Pending</i> — <i>Proceedings of the USENIX Security Symposium (USENIX-Security)</i> , 2021	
PRESENTATIONS & INVITED TALKS	1. Tracer FIRE 9 <i>DEF CON 28 BTV</i> , Las Vegas, NV, USA <i>University of Arizona</i> , Tuscon, AZ, USA <i>Purdue University</i> , West Lafayette, IN, USA 2. Thunderbird Cup <i>University of New Mexico</i> , Albuquerque, NM, USA <i>Benedict College</i> , Columbia, SC, USA <i>University of the Virgin Islands</i> , St. Thomas, Virgin Islands, USA	August 2020 July 2020 April 2019 July 2018 June 2018 July 2016
AWARDS & HONORS	Featured Purdue CS article — Volunteering for research leads to first paper	Spring 2020

SKILLS

Programming—Proficient in Java, C/C++, Python, Bash.
Experience in R, PowerShell, ARM/x86 Assembly.
Markup languages: \LaTeX , HTML, CSS, Markdown.

Operating Systems—Mac OS, Linux/*nix, Windows.

Software & Services—Ghidra, AWS (Route 53, ELB, EC2, S3), Autopsy, Elastic Stack.

Languages—English, Mandarin Chinese (Conversational)