

## Andrew C. Chu

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CONTACT INFORMATION	<a href="mailto:chu108@purdue.edu">chu108@purdue.edu</a> <a href="https://andrewccchu.github.io">andrewccchu.github.io</a>
CITIZENSHIP	United States of America
EDUCATION	<b>B.S., Computer Science</b> , Purdue University, West Lafayette, IN, USA G.P.A.: 3.57/4.00 <b>December 2020</b>
EMPLOYMENT	<b>R&amp;D Intern (DOE L Clearance)</b> — Sandia National Laboratories Albuquerque, NM, USA <b>June 2014 – Present</b> 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	<b>Host</b> — Purdue Old Masters West Lafayette, IN, USA <b>September 2018 – November 2018</b> 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  <b>Vice President, Programming and Education</b> — Purdue Interfraternity Council West Lafayette, IN, USA <b>November 2017 – November 2018</b> Coordinated trainings, programs, and conferences with fraternity/sorority relevant industry professionals in efforts to educate over 6,500 Greek community members
PUBLICATIONS	<b>Articles in peer-reviewed conference proceedings</b> 1. <b>Andrew C. Chu</b> , Muslum Ozgur Ozmen, Z. Berkay Celik. “The Wild West of Dropshipping - Characterization and Detection of Fraudulent e-Commerce Vendors.” <i>Pending — Proceedings of Network and Distributed System Security Symposium (NDSS)</i> , 2021 2. Muslum Ozgur Ozmen, Xuansong Li, <b>Andrew C. Chu</b> , Z. Berkay Celik, Bardh Hoxha, Xiangyu Zhang. “Towards Compositional Safety and Security Reasoning in Physical Spaces.” <i>Pending — Proceedings of the USENIX Security Symposium (USENIX-Security)</i> , 2021
WORKSHOPS, 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 <b>August 2020</b> <b>July 2020</b> <b>April 2019</b> 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 <b>July 2018</b> <b>June 2018</b> <b>July 2016</b>
AWARDS & HONORS	Featured Purdue CS article — <a href="#">Volunteering for research leads to first paper</a> <b>Spring 2020</b>

## SKILLS

**Programming**—Proficient in Java, C/C++, Python, Bash.  
Experience in R, PowerShell, ARM/x86 Assembly.  
Markup languages:  $\text{\LaTeX}$ , 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)