Andrew C. Chu

CONTACT INFORMATION	chu108@purdue.edu andrewcchu.github.io
CITIZENSHIP	United States of America

EDUCATION

B.S., Computer Science, Purdue University, West Lafayette, IN, USA   **December 2020**
> G.P.A.: 3.57/4.00

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 vulnerabilites, 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." *In Submission — Proceedings of Network and Distributed System Security Symposium* (NDSS), 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." *In Preparation — Proceedings of the USENIX Security Symposium* (USENIX-Security), 2021

WORKSHOPS, PRESENTATIONS & INVITED TALKS

1. Tracer FIRE 9
   DEF CON 28 BTV, Las Vegas, NV, USA   **August 2020**
   University of Arizona, Tuscon, AZ, USA   **July 2020**
   Purdue University, West Lafayette, IN, USA   **April 2019**

2. Thunderbird Cup
   University of New Mexico, Albuquerque, NM, USA   **July 2018**
   Benedict College, Columbia, SC, USA   **June 2018**
   University of the Virgin Islands, St. Thomas, Virgin Islands, USA   **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)