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, OUTREACH, AND SERVICE

Workshop Presenter

Sandia National Laboratories Tracer FIRE 9, DEF CON 28 BTV	**Summer 2020**
Sandia National Laboratories Tracer FIRE 9, University of Arizona	**Summer 2020**
Sandia National Laboratories Tracer FIRE 9, Purdue University	**Spring 2019**
Sandia National Laboratories Thunderbird Cup, University of New Mexico	**Summer 2018**

Purdue Interfraternity Council

Vice President, Programming and Education **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

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)

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." *Pending — 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." *Pending — Proceedings of the USENIX Security Symposium* (Usenix SEC), 2021

AWARDS & HONORS

Featured Purdue CS article — Volunteering for research leads to first paper **Spring 2020**