

Andrew C. Chu

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| 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 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, 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.” <i>Pending — 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 — Proceedings of the USENIX Security Symposium (USENIX-Security)</i> , 2021 |
| AWARDS & HONORS | Featured Purdue CS article — Volunteering for research leads to first paper Spring 2020 |