

## Andrew C. Chu

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### CONTACT INFORMATION

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[andrewccchu.github.io](https://andrewccchu.github.io)

### 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 megaflo 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	<b>Summer 2020</b>
Sandia National Laboratories Tracer FIRE 9, University of Arizona	<b>Summer 2020</b>
Sandia National Laboratories Tracer FIRE 9, Purdue University	<b>Spring 2019</b>
Sandia National Laboratories Thunderbird Cup, University of New Mexico	<b>Summer 2018</b>

#### Purdue Old Masters

Host      **September 2018 – November 2018**

One of 50 undergraduate students on campus selected to organize community outreach between various student organizations on campus, in an effort to promote discussion of diversity, inclusion, and representation

#### 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:  $\text{\LaTeX}$ , 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)

### PUBLICATIONS

- WK Lee, T Morris, **A Chu**, K Gilmore, J Russ, A Carter, (2016) *ABQ ThunderBird Cup v3.0 Alpha Workshop: Workshop Analysis 2016.*, [[OSTI:1334945](#)].