

Justin Applegate

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EDUCATION

Brigham Young University, Ira A. Fulton College of Engineering Jun 2020 – Apr 2024 (Provo, UT)

- BS in Cybersecurity, Minor in Computer Science (GPA of 3.99)
- Academic, Full-Tuition Scholarship
- ACT – 34

EXPERIENCE

Computing Specialist, BYU Cybersecurity Research Lab Dec 2020 – Present (Provo, UT)

- Designed/imaged 50+ devices of 7 different operating systems for a cybersecurity escape room
- Designed a segregated network for the room with a DHCP server, firewall, FOG server, VMs, etc.
- Wrote over 6000 lines of code in 5 different languages
- Wrote a 42-page document on the layout, setup, and administration of the escape room

Volunteer CTF Instructor, BYU Cybersecurity Student Association Apr 2021 – Present (Provo, UT)

- Teach weekly training meetings on various skills used in cyber Capture the Flag competitions
- Organize teams for monthly CTF competitions online

Quality Assurance Web Tester, Brigham Young University Sep 2020 – Dec 2020 (Provo, UT)

- Found and reported an average of 20 bugs in web features per month as tickets in Jira
- Tested and approved an average of 17 code updates per month

Volunteer Missionary, Church of Jesus Christ Aug 2018 – May 2020 (Houston, TX)

- Trained and directed work of 16 missionaries while in various leadership positions
- Taught full-time in a one-on-one or small group setting in Spanish
- Set and reported progress on companionship and area goals weekly

TECHNICAL SKILLS

Proficient – C++, Python, Linux, Networking, Web Programming, Software Development

Moderate – SQL, Data Structures, Virtual Machines, Nginx/Apache, Autopsy, PHP

COMPETITIONS

- Participated in 9 Capture the Flag (CTF) competitions in 7 months
 - Focuses on forensics, binary & web exploitation, cryptography, reverse engineering, OSINT, networking, steganography, etc.
- Placed 2nd at BYU's Winter 2021 CTF
- Placed in the top 10% at justCTF 2020
- Placed in the top 20% in 5 different CTFs

PERSONAL PROJECTS (see github.com/JustinApplegate)

- C++ – port scanner, random password generator, encoding/decoding program
- John the Ripper – password cracking setup (personal wordlists, rule sets, etc.)
- HTML/CSS/JavaScript/Vue – personal website

INTERESTS/ACHIEVEMENTS

- Languages: English (native), Spanish (fluent)
- ACTFL Spanish Certification (Advanced Low)
- Eagle Scout of the Boy Scouts of America
- Passionate about technology, sports, learning, and speaking Spanish