

# Justin Applegate

(480) 272-5344 • [justink.applegate@gmail.com](mailto:justink.applegate@gmail.com) • <https://justinapplegate.me>

## 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 48-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** – Penetration Testing (eJPT), SQL, Data Structures, Virtual Machines, Autopsy

## 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 2<sup>nd</sup> 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](https://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