

Cyber Warriors: A Comprehensive Introduction to Cybersecurity Tools and Techniques

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UTSA



Cybersecurity Education & Career

Beyond CyberWarriors – Pre-College

- **So, I completed the CyberWarriors camp – What next?**
- You could install your own Kali Linux VM and continue learning about Linux and new Kali tools!
- **Remember:** A good security professional always has a complete, updated and customized toolkit with which he/she is well averse!
- Research about upcoming attacks and vulnerabilities – keep up to date with new developments in the field of cybersecurity.
- Take high-school courses in computer science, Information Technology and cybersecurity.
- Every time you log into your computer, use a new application or purchase a new tech gadget, think about cybersecurity!

Beyond CyberWarriors – College

- **So, I completed high school – What next?**
- Find appropriate **University/Programs** in Cybersecurity.
 - UTSA has some excellent programs in Cybersecurity.
- **Apply** for appropriate **scholarship** opportunities:
 - NSF Scholarship for Service (<https://cs.utsa.edu/scholarships/nsf-sfs>).
 - NSA ONRAMP (<https://cs.utsa.edu/scholarships/national-security-agency-onramp-ii-scholarship-open-stem-sophomore-seniors-and>).
- Be **careful** which program you sign up for:
 - Programs in Computer Science and Engineering departments are more foundational and technical (programming and systems heavy).
 - Programs in Information System and Business departments are more applied, and business and technology-management focused.
 - Each has its own merits – before signing up, know if it aligns with your career goals
- Take **core** cybersecurity, networking, programming and systems **classes early**.
 - This allows you to take some advanced classes on new topics in the senior year!
- Get involved in cybersecurity related **Senior Design projects**.
- Find cybersecurity-related **internships** with companies and government labs.

Beyond CyberWarriors – Post-College

- **So, I completed college – What next?**
- Find the **right job**!
 - Government Agencies (NSA, DOD, DHS).
 - Companies (Microsoft, Amazon, Apple, Google).
 - Educational and Non-profits.
 - Complete certifications: CompTIA Security+.
- Interested in **research**?
 - Graduate school and doctoral studies.
- Continue being **engaged** with the white-hat hacking and penetration testing communities:
 - Attend conferences (cons): Blackhat, Defcon, etc.
 - Attend/give seminars and talks.

Questions