

WHERE MY DEGREE CAN TAKE ME!

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Career Pathways

Careers in IT/ Comp Science Area	Careers for IT/ Comp Science Graduates		
Traditional	Related	Open	Working for Self
Ethical Hacker (Penetration Tester)	IT Security Consultants	Office Administrator	Freelance Cybersecurity Consultant
Security Analyst	Cybersecurity Awareness Trainer	Project Manager	

Ethical Hacker (Penetration Tester)

Technical Skill	Skill Development Strategy
<ol style="list-style-type: none">1. Offensive Security & Vulnerability Discovery.2. Network Security & Infrastructure.3. Scripting & Programming.	<ul style="list-style-type: none">• Participate in hackathons, capture-the-flag (CTF) competitions, and online labs like HackTheBox or VulnHub.• Take courses like OSCP (Offensive Security Certified Professional) to gain structured knowledge.• Build a strong base in TCP/IP protocols, network troubleshooting, and firewalls. Consider CCNA and CND certifications.• Gain deep understanding of Windows and Linux internals, user privileges, and security mechanisms.• Develop fluency in Python, Bash, or PowerShell for automation and custom exploit development.• Understand programming concepts like data structures, algorithms, and object-oriented programming.• Learn to automate tasks and interact with APIs for efficient vulnerability testing.
Non-Technical/Transferrable Skill	Skill Development Strategy
<ol style="list-style-type: none">1. Problem-Solving & Analytical Thinking.2. Communication & Reporting.3. Ethics & Professionalism	<ul style="list-style-type: none">• Regularly practice logic puzzles and brainteasers to hone analytical skills.• Approach problems from different angles and consider unconventional solutions.• Practice presenting your findings effectively to technical and non-technical audiences.• Learn to work effectively with teams, including developers and security teams, to address vulnerabilities.• Understand and adhere to ethical hacking principles to ensure responsible vulnerability discovery and disclosure.

Stepping Stones Model and Next Career Step

- ◆ Upon completion of my bachelor's degree in cybersecurity with a high rank, I plan to complete professional qualifications related to cybersecurity like CEH, CND, CHFI, and CCNA.
- ◆ Once I complete my degree, I want to get some practical hands on real life experience which I will be able to achieve through the internships at some reputable companies. This will help me learn and develop my skills to get a deeper understanding about the field and the challenges and opportunities it has.
- ◆ Additionally I've planned to pursue a Masters degree in a Cybersecurity related field while working in a company to put my theoretical and academic skills into practical experience. I am a dedicated person who is committed to learning continuously and develop my skill set to stay updated with the current trends and enhancement in the field.
- ◆ My long term career goal is to become an Ethical Hacker and go to higher levels in that position by gaining hands on real life experience in this industry and improving communication and problem solving skill.
- ◆ I hope to make a positive impact in the cybersecurity field, and I am committed to lifelong learning and professional development to stay current with emerging threats.