



Quantum Leap Voyages CYBERSECURITY TRAVEL LOG



Mentors Victoria and Christopher

STUDENT NAME	EMAIL ADDRESS	START DATE: END DATE:
<p>“The mission of this exploration is to make the student aware of the PATHWAYS to career success!” Your responses to each adventure should be three or more sentences!</p>		
PATHWAY 1 HIGH SCHOOL STEP #1 CLASSES AND CLUBS	What classes are available in your school to help Victoria and Christopher explore cybersecurity? What Career and Technical Education courses are available? List the courses from both groups. They also decided to start a club. What activities do other cybersecurity clubs do? Read: CS Club Survival Guide List 5 & summarize.	
STEP #2 CYBERSECURITY KICK OFF MEETING	Chris and Victoria host the first club meeting with a video and discussion. Watch video: Cybermagazine Interview	
<p>How does “Batman” connect to cybersecurity?</p> <p>What personal attributes/skills do cybersecurity firms look for when hiring employees?</p> <p>What other important concept did you learn about the industry you did not know?</p>		
STEP #3 – CYBERSECURITY CAREER PATHWAYS	After a successful club kick-off, Chris and Victoria want to discuss career opportunities and invite a speaker for next meeting. Review: Cyber Seek – New Horizons – Cybersecurity Career Path Beginner’s Guide	
<p>What are some of the job titles in this industry?</p> <p>Is cybersecurity a good career? Why?</p> <p>What are three cybersecurity jobs you would want to know more about?</p>		
STEP #4 – WHO’S HIRING CYBERSECURITY?	Victoria and Chris want to learn more about companies who hire cybersecurity workers. Explore two companies below for careers and watch videos.	
<p>KnowBe4 – Herjavec Group – RSA – Thycotic – Blackberry – Dragos – Hacker One – Avast</p> <p>Record your findings:</p>		



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PATHWAY 2 HIGH SCHOOL SUMMER ADVENTURES STEP #5 CYBER CAMP	Victoria and Chris are looking at summer activities related to cybersecurity. Investigate: National Student Leadership Conference – iD Tech Virtual Cyber Camps – iD Tech On-Campus Camps – SCCC Youth Entrepreneurial Camp
Research each of these and any other virtual or local/regional camps of interest. Explain which one you would find most exciting and would be interested in:	
STEP #6 – CYBERSECURITY SUMMER READING	Chris and Victoria discover cybersecurity has a language all its own and decide they need good reference books to study over the summer. Invest: The Cybersecurity to English Dictionary - Live-Library for Cybersecurity for Beginners – 25 Cybersecurity Terms That Everyone Who Uses a Computer Should Know
Review resources and describe if it's valuable in helping you become more fluent in common cybersecurity terms. Would you recommend them to Victoria and Chris? Why?	
STEP #7 – EVENTS AND CONFERENCES	Christopher and Victoria would like you to help do a little research to find one or two really good events of conferences they could attend. Watch video: Top 10 Cybersecurity Events – Search for any current CS events – Select 2
Evaluate two events or conferences you would to attend in person or online. Explain why? What recommendations do you have for Christopher and Victoria?	
STEP #8 GETTING REAL ABOUT CYBERSECURITY	As Victoria and Chris learn more about CS, they now want to explore close-to-home, real-life cybersecurity situations. They make a list of local businesses, agencies and institutions to investigate how they prepare for a cyberattack.
Pick any two or three on the list in your community. Make a list of a few questions to ask about cybersecurity readiness. Set up an interview with their cybersecurity professional. Record your findings: Local Police Precinct Town Fire Department School District Community Ambulance Services Local Hospitals Town Government Water, Electric, Phone Services Banks Target Stores Home Depot	



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PATHWAY 3 COLLEGE STEP #9 – CHRIS CHOOSES A 4-YEAR DEGREE COLLEGE	Chris wants to be fully prepared for any challenges in the competitive field of cybersecurity. He investigates 4-yr colleges. Take a look at Computer Science at Syracuse University . Watch video. Review Major Courses.
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Explain the relevance these major courses have on a cybersecurity career path.

Would you enroll at this University and why?

Give an overview of your impressions and recommendation for Chris.

STEP #10 – INFOSEC CLUB FOR CHRISTOPHER AT SU	Chris is enjoying SU and having fun playing cybersecurity games with other students. He is interested in a Cyber Competition so he joins the SU Security Club Review Infosec . Watch Cybersecurity 101 video. Explore NovaLabs .
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Do you believe Christopher’s studies with this club will become a valuable tool in proving both cybersecurity experience and networking? Why?

Explain how defending cyberattacks protects the way we live and so business.

STEP #11 – VICTORIA DECIDES ON A 2-YEAR STATE COLLEGE	Victoria’s thoughts are to first achieve an Associates 2-yr Degree, the decide if she wants to work at a cybersecurity company or continue at a 4-yr college for a BS. Check out Suffolk County Community College Cybersecurity and Information Assurance A.A.S. Degree .
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Why do you believe Victoria made a great move in preparing for a career at SCCC?

Explore where Victoria could find work in her interest after graduation.

Think of your possible career path, would you seek employment or continue your education? Explain.

STEP #12 – CYBER CLUBS AND COMPETITIONS FOR VICTORIA	Victoria joined a Cybersecurity Club at SCCC along with members who ranked at the National Cyber League. Explore Cyber Sleuths article. Watch video NCL
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Why do you think this club is of value to Victoria? Why would you become a member?

Explain how this club’s participation in cyber competitions can help Victoria by networking with recruiters and executives in the world of cyber security?



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**PATHWAY 4
COLLEGE SUMMER
ACTIVITIES
STEP #13 – REAL-WORLD
INTERNSHIP FOR CHRIS**

Chris decided to spend his summer away from the university by seeking an internship in the real-world of cybersecurity. A professor suggests he look at an investment banking company. Explore [Credit Suisse](#) internships. Watch [CS video](#).

Explain why you think this company might be a good opportunity for Christopher?

As Chris is interested in commercial and banking data security, how will this benefit his career journey?

**STEP #14 – CHRIS JOINS AN
INFORMATION SECURITY
MEETUP**

As an intern at Credit Suisse, Chris joins an information security meetup in NYC. It was impressed with featured speaker. Check out the [NY IS MeetUp](#).

Will this meetup be of value to Chris and expand his networking activities?

What networking value will this be for Christopher?

If you were Chris, do you think you would pursue attending this meetup after you have secured cybersecurity employment?

**STEP #15 – VICTORIA’S JOB
SEARCH FOR INTERNSHIPS**

After completing her first year of college, Victoria is ready to investigate internships. Review [The NYC Department of Information Technology & Telecommunications](#). Explore [NYC DoITT Summer Intern Program](#).

Explain why this might be a program you would consider doing?

Independent Learning: Follow industry related [newsletters](#), [blogs](#) and [magazines](#). Also check out [Crypto-Gram](#) Newsletter. Record your thoughts and considerations.

**STEP #16 – VICTORIA FINDS A
CYBER MEETUP**

Victoria’s roommate introduced her to a great CS meetup. Explore [EvolveSec Cybersecurity Meetup](#)

Help Victoria decide if this meetup group is a good opportunity for expanding her future networking activities.

Do you think this is a forum Victoria might continue after she graduates and has a secure cybersecurity job? Why?

Is this a Meetup you would consider joining?



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**PATHWAY 5
LIFELONG LEARNING**

**STEP #17 - LEARNING
@ THE JOB SITE**

Choose any 2 companies listed. Explore their websites. Answer the following:

1. What is the corporation's vision? Goals? Mission?
2. What services or products does the company provide?
3. Using the organization's website career page – list the current job openings/internships which relate to your career goal.
4. Find the organization's [LinkedIn](#) site. What else can you learn about the company and its vision/goals?

Companies: [#1](#) [#2](#) [#3](#) [#4](#) [#5](#) [#6](#) [#7](#) [#8](#) [#9](#)

STEP #18 - APPRENTICESHIPS

An apprenticeship is a paid period of training. Watch [Cybersecurity video](#). Review NYS [Apprenticeship Video](#) – [ManTech Apprenticeship](#) – [Apprenticeship.gov](#) – [CISSP \(what it means\)](#) - [\(ISC\)²: The World's Leading Cybersecurity Professional Organization](#)

1. Select two training opportunities you are interested in? Note details why.
2. Watch [Cybersecurity Professional Advice Def Con 24 Video](#) and note anything helpful you learned.

**STEP #19 - U.S. MILITARY
SERVICES OPTION**

Explore one of the military services below for a career related to the Cybersecurity. Watch video: [U.S. Military Cyber Defense](#). Journal your feedback and describe the military training program you would consider joining to enhance your career.

[ARMY](#) – [NAVY](#) – [AIR FORCE](#) – [MARINES](#) – [U.S. COAST GUARD](#)



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Congratulations on completing the voyage of career pathways for Cybersecurity! Please summarize your experiences in the reflections below.

STEP #20 – REFLECTION: IS THIS A CAREER PATHWAY FOR YOU? Watch video: [Computer IS/Ethical Hacking](#)

1. Have you taken some of the high school courses you need to take to get yourself started on the pathway?
2. Which summer activity are you eager to take in order to validate your interest in this career field?
3. What “Life-long” learning options pathway will you take upon leaving high school? You can choose among full time employment, apprenticeships, armed services and post-secondary education, which are all sound choices.
4. If applicable, what college major and courses would you choose to study at a two-year or four-year college?
5. What summer activities are you eager to explore to increase your success chances of entering the field of employment after completion of high school or college?
6. When ready what full-time employment opportunities will you choose?
7. Which apprenticeship program(s) would you join for on-the-job training leading to full-time employment?
8. What military service would you consider for “FREE” education and training in the field you would like to pursue?
9. Did you enjoy this career pathway adventure and why?
10. Would you like to try another career pathway voyage?