

(1) Describe the specialization aspect of the Enterprise Security internship and elaborate on your area of focus.

from Wesley Brown:

- I am working with the infrastructure team that maintains the services used by the university at-large.

from Adam Creech:

- During the first five weeks of the program, the five of us moved between five different departments within information security and then we were each assigned to a different group. I had originally went into this internship expecting to get some good experience, but I honestly did not expect to enjoy what I've been doing as much as I have. I was assigned to Identity and Access Management.

from Victor Cuarton:

- Right now I don't have a specialization. I am going through a lot of training such as Splunk, System Administration, Networking and Security Institute (SANS), etc. Also with that, I am helping with anything that needs to be done from spreadsheets to research.

from Rebecca Hu:

- I'm working with the Information Protection team.

from John Sparks:

- Security Operations is my focus area as an intern for Enterprise Security. This team handles intrusion detection, log monitoring and incident response.

(2) Is there anything in particular that you would like to share about your experience so far? Can you share an example of something that happened that you felt was very inspirational or helpful to your future security-related career?

from Wesley Brown:

- I have learned a lot about many different technologies and how they all interact together to provide the services we all use here at Ohio State.

from Adam Creech:

- Overall I am very happy with the type of work that I have been able to accomplish during this internship. Personally, I enjoy coding and would like to eventually work as a developer. Because of my interest in coding I've been assigned several tasks that have helped to strengthen my skills in this area, which will ultimately help me with my future career.

from Victor Cuarton:

- Working with all the Enterprise Security groups and meeting each team member was very helpful and provided an overview for each team member's contribution. **Andrew McCabe** was very helpful by teaching me different ways of protecting my personal computer. **Dan Struble** taught me about vulnerability management, **Brett Cosma** taught me about Dell Data Protection Encryption (DDPE) and **Robbie Gordon** taught me mobile device management. **Ryan Treptow** gave a closing presentation on InfoSec that was also very enjoyable. In addition, I was also able to sit with vendors from Tenable to go over Security Center and its features, which was pretty interesting. **Gary Clark** and his team helped me realize the importance of security. For example, every time I use a vending machine or anything requiring a card swipe, I give a quick tug on the machine to see if anyone put a skimmer on it. I also learned about the policies and procedures as well as how phishing plays a big part in day to day email traffic. **Steve Romig** and his team showed me their server room, demonstrated Splunk and explained ways someone can attack another person or organization. **Jason Miller** and team taught me a lot about virtual machines and **Geoff Shoupp** showed me how he uses Python and his programming skills to save time when analyzing and organizing data. The firewall team showed me the process to access or deny requests, the virtual machine team showed me that there is a lot more to creating a virtual machine on your own PC than you might realize. **Rich Nagle** and his crew taught me about the approval processes, two-factor authentication and Duo multi-factor authentication and the importance of identity management.

from Rebecca Hu:

- Not being afraid to ask questions was something that was really helpful. All of the people in OCIO are very open to suggestions, and on a few occasions, a question I asked made them think about something that they may not have thought of yet. It was nice to get that validation of, "That's a great question."

from John Sparks:

- Sitting with the Security Operations group has been very inspirational and helpful for my pursuit to a security-related career. Throughout my week with this group, I had the opportunity to help set up servers, attend a meeting with an investigator who attempted to track a cyber-bully, observed the incident response team defend against attacks to the university, and spent

time learning from the insightful and intelligent student employees. What I admire most about this team is their genuine interest to successfully educate me about security. Each individual shows a passion for their role in Enterprise Security and does an excellent job answering my questions. This has inspired me to become conversant with the opportunities, challenges, and responsibilities that a future career in cyber security might consist of.

(3) Have you learned anything that surprised you or changed a misconception you had?

from Wesley Brown:

- I was surprised to learn just how spread out all the teams are. I assumed most of them were all in the same building somewhere.

from Adam Creech:

- In general, I have been surprised just by how much I've enjoyed working in information security. As I mentioned previously, I originally went into this internship expecting to get some good experience, but I honestly did not expect to enjoy what I've been doing as much as I do.

from Victor Cuarton:

- The things that surprised me the most were all the different types of ways someone can be attacked, the lengths of what a criminal would go to in order to steal someone's information and the weakness of the security on my own personal computer.

from Rebecca Hu:

- During our orientation period, we got to shadow 5 different groups. That's 5 sides of security, so it was really cool to see how OCIO has different units each with a separate focus, but working towards the same goal.

from John Sparks:

- Throughout my short time in this program I have become more aware of some misconceptions I had on certain topics. This learning process has been very surprising in many ways! For example, at the beginning of the internship program I was confident in my ability to define information security. Throughout my rotation, I asked someone from each group to give a definition for information security. This question produced a lot of different responses. It seemed that everyone defines information security in their own way. So I have come to the conclusion that information security is comprised of multiple parts, and cannot be effective unless all areas are working correctly.

(4) How do you think the Enterprise Security internship will help you after graduation?

from Wesley Brown:

- Regardless of what career I choose to go into after graduation, the experiences I have had so far and all the things I have learned about technology and communicating with people will be useful in any career field.

from Adam Creech:

- It will give me a good amount of real world experience in a field where there are not enough qualified applicants to satisfy the demand.

from Victor Cuarton:

- The internship will better prepare me for a future in security and give me the skills needed to get the job done, to prepare me to speak with other security professionals and have more confidence when talking about technology.

from Rebecca Hu:

- The experience is definitely going to help after graduation if I pursue the route of a security career. As we've discussed, Columbus has the "happy problem" of having more open security jobs than people who are qualified to fill them. Another great way that this internship is shaping me is through the opportunity to deal with so much data. Not many people can say that they have had the opportunity to deal with many clients that are the size of Ohio State.

from John Sparks:

- I feel that the Enterprise Security internship has already been extremely beneficial to my future cyber security career. The knowledge gained from the atmosphere alone will aid in any future endeavors whether they be related to security or not. The on-the-job experiences that this program has to offer could not be accomplished through a classroom setting. This program allows for an extensive introduction to security functions and emerging technologies that will give the interns experience in the industry before graduation. It also allows for the improvement of the student's work ethic by teaching team building and communication skills as well as professional development.

(5) Do you have any advice for the next wave of Enterprise Security interns or to students who are considering careers in the information technology and security field?

from Wesley Brown:

- I would suggest that anyone looking to get into both the Enterprise Security Internship program or the information technology and security fields in general, should go out and start teaching themselves. Learn as much as you can and aim to learn something new or improve upon something every day. Let your curiosity about technology guide you to what to learn. Knowing even a little bit about a lot of things will go a long way and being a life-long learner will help immensely as the technology field never stops changing.

from Adam Creech:

- Information security is an extremely broad topic. Even if it does not seem very interesting to you at first glance, I guarantee that you will be able to find something within the field that you enjoy.

from Victor Cuarton:

- Make some time to speak with us (Rebecca, Wesley, Adam, John and myself) to clarify any acronyms or ask any advice
- Always have something to write on, take lots of notes and write down what everyone teaches you, add new acronyms to your list
- Pay attention
- Learn as much as possible from all of the groups and try to learn things on your free time
- Network, make friends!
- Don't be afraid to admit when you don't know something or if you think you have a good idea don't be afraid to bring it up
- Don't add a photo to your resume

from Rebecca Hu:

- A piece of advice that I can give is to be attentive and listen. Everyone sometimes throws out great advice. Either write it down, or tuck it into your memory--but don't forget it!

from John Sparks:

- Some advice to future Enterprise Security interns is to avoid any hesitation when asking questions! If you don't understand something or want to know more about a certain subject, just ask. The people that you will be shadowing are extremely skilled and very knowledgeable. Take advantage of your time with each individual by becoming aware of their important role in Enterprise Security.