Week 5

Creating Engaging Classrooms:

Facilitator:

Graphical user interface, application

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Graphical user interface, text, application

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vcf@codepath.org

codepath.org/volunteer

Make Up Work:

(1 paragraph) Summarize the key points of the facilitator training.

* Career center
* morgan richardson
* codepath.org/career
  + Resource Guides
  + Technical Mentoring Program
  + Career Coach Services codepath.chronus.com
  + Resume Review Week
  + Mock Interviews
  + Virtual Tech Talks

This weeks facilitator training we had the honor of meeting Morgan Richardson, the CodePath Career Center Lead. The career center is a great resource available to the CodePath community, i.e. tech fellows and students, which hosts a variety of different services including: Resource Guides, Technical Mentoring Program, Career Coach Services at codepath.chronus.com, Resume Review Week, Mock Interviews, and Virtual Tech Talks. The Career Center is also responsible for the Virtual Career Fair (VCF) which I will definitely be attending.

(1 paragraph) Identify at least one strategy or take-away that stood out to you, and explain how you will use it in your class

* This week we didn't learn any strategies, what we instead learnt about is the Career Center. My take away is that CodePath is an awesome resource that provides so many different services to make you a better all-around tech worker. I will definitely be recommending to my students to use CodePath as a resource.

Technical:

Crypto:

Graphical user interface, text, application, email

Description automatically generated

Text

Description automatically generated

A picture containing graphical user interface

Description automatically generated

Graphical user interface, text, application

Description automatically generated

Base64 Tell tails:

* usually ends with = or ==
* length of string divisible by 4

Graphical user interface, text, application

Description automatically generated

Diagram

Description automatically generated with medium confidence

Graphical user interface, text, application

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application

Description automatically generated

Text

Description automatically generated with medium confidence

Diagram

Description automatically generated

Graphical user interface, text, application

Description automatically generated

HW:

Labs:

* Insecure Cryptographic Storage 0: base64 encoding = base64isNotEncryptionBase64isEncodingBase64HidesNothingFromYou
* Insecure Cryptographic Storage 1: Caesar Cipher = The result key for this lesson is the following string; mylovelyhorserunningthroughthefieldwhereareyougoingwithyourbiga
* ICS2: Inspect form script where we can find the key and the cyphered text and decode to: TheVigenereCipherIsAmethodOfEncryptingAlphabeticTextByUsingPoly
* PGP: Cyberchef: plug in key and text and submit

CTF:

1. base64: \*CTF{killing your brain like a poisonous mushroom}
2. hex: \*CTF{Bring Da Ruckus}
3. XOR both hex values: \*CTF{36490e09594d000c0a1c48}
4. From hex, XOR brute force: Key = 58: \*CTF{Cooking MC's like a pound of bacon}
5. IDK
6. from hex, XOR, key is WUTANG(UTF8): \*{What's the commotion}
7. Use <https://aesencryption.net/>. Key = PROTECT YA NECK
8. IDOR + Crypto: id=24 gives encrypted flag. Atbash: \*XGU{ZIILTZMG\_TVMGOVNZM\_WVNLM} ==> \*CTF{ARROGANT\_GENTLEMAN\_DEMON}