CNAP: IUP Expansion of CAE-C Education Project

Meeting's Agenda on March 28, 2018

Action:

1. Approval of last meeting's minutes held on March 7, 2018, see attachment #1.

Announcements:

1. We have held a well-received third Cybersecurity Skill Improvement Weekend Workshop last Saturday, March 24, at the Westmorland County Community College.

2. Next CAE Tech talk is scheduled on April 19th, 2018 from 1:10 PM – 1:50 PM. The webinar title is "Apache Metron and Apache Spot – big data tools for cybersecurity". I reserved room 331 Stright Hall for this event. Please check the flyer in attachments #2 for additional details. Please encourage anyone who might be interested to attend.

3. Dr. Rafoth and his students will deliver a brief presentation (tentatively scheduled on April 2) to the faculty of the Computer Science Department to promote the project services. See attachment #3.

Discussions:

1. Dr. Fiddner came up with plan/topics (see attachment #4) to be discussed with the Pittsburgh Technology Council (PTC) in a meeting between us and PTC personnel that will be facilitated by Dan Yuhas, IUP IT manager.

2. Discussion and updates of the findings of the Research Study and updates on visual representation.

3. We need to collect data from Cybersecurity courses offered this semester too. These are COSC 356, 454, & 432. Other courses can also be included.

4. Content and Organization of the Web Portal at www.iup.edu/caecexpansion including Multimedia contents and how to best present/organize them.

5. Summer camp and possible collaboration with UBMS. Tentative date, the week of June 4th.

6. Braxton and Sarah, updates regarding MM editing (pictures and videos) and posting on the project Web portal.

Project Components Status Reports:

1. Research Component: Dr. Machado

2. Tutoring/Writing Center: Dr. Rafoth

3. Cybersecurity local consortium: Dr. Fiddner

4. Web Portal, Summer Camp, and Weekend Workshops: Dr. Farag.

New Business:

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CNAP: IUP Expansion of CAE-C Education Project
Meeting Minutes for Wednesday, March 7, 2018

Meeting Commenced at 11:05 a.m. in HSS 123

Attended by: Dr. Farag, Dr. Machado, Dr. Fiddner, Dr. Rafoth, Alex Ashcom, Amber Stewart, and Krista Sarraf, Dameron Braxton and Sarah Bradshaw

1: Amendment 1 to fix Kevin Slonka's name in Minutes for February 21st, 2018.

2: February 21st minutes were unanimously approved with amendment 1 at 11:09 a.m.

3: Dr. Fiddner will continue to recruit attendees for March 24th workshop.

4: Dr. Rafoth will create short presentations as tools for teachers to better assist students in their writing.

5: Organization of the writing and communication skills tutoring page will be adjusted.

6: Dr. Farag will consider an update to the CAE-C portal to be more visually appealing.

7: Dr. Farag will upload Dr. Fiddner's community draft to the web portal.

8: Dr. Fiddner will create a letter to be distributed to local school districts, inviting them to join CNAP.

9: Dr. Rafoth will approach a possible candidate for computer science assistance for the project over summer.

10: Dr. Rafoth will provide a bar graph on cyber tutoring sessions.

11: Dr. Machado will edit certain interview questions to ask about services IUP offers to enhance cybersecurity students' learning.

12: The Research Institute will be asked to find possible funding opportunities to enable us to continue this project beyond the end of this academic year.

13: The collective will work on ways to improve the abilities of students to perform the important skills identified in the interviews of professionals.

14: Dr. Farag and Dr. Fiddner will begin initial planning steps for the summer camp.

15: Multiple avenues of advertisement for summer camps will be explored by the collective.

Submitted by: Alex Ashcom and Waleed Farag

CAE Tech Talk

National Centers of Academic Excellence

19 April 2018

Apache Metron and Apache Spot – big data tools for cybersecurity (1:10-1:50 pm ET)

Mark your calendars and come join your friends in the CAE community for a Tech Talk. We are a warm group that shares technical knowledge. CAE Tech Talks are free and conducted live in real-time over the Internet so no travel is required. You can attend from just about anywhere (office, home, etc.) Capitol Technology University (CTU) hosts the presentations using their online delivery platform (Adobe Connect) which employs slides, VOIP, and chat for live interaction. Just log in as "Guest" and enjoy the presentation(s).

Below is a description of the presentation(s) and logistics of attendance:

Date: Thursday, 19 April 2018

Time: 1:10-1:50 pm ET

Location: https://capitol.adobeconnect.com/cae_tech_talk/

Just log in as "Guest" and enter your name. No password required.

Title/Topic: Apache Metron and Apache Spot – big data tools for cybersecurity

Audience Skill Level: All levels

Presenter(s): Dr. Alex Rudniy from Fairleigh Dickinson University

Description:

The webinar will introduce audience to two new competing big data tools for cybersecurity, Apache Metron and Apache Spot operating as an integral part of Hadoop ecosystem. The presentation will walk you through the evolution, features, use cases, benefits and deployment. These tools are used for developing cybersecurity learning experiences as part of a bigger

project sponsored by the National Security Agency under Grant/Cooperative Agreement (Cybersecurity Workforce Education - CNAP Initiatives) No. H98230- I 7- I -032 I at Fairleigh Dickinson University. Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author and do not necessarily reflect the views of the National Security Agency. The author will describe the goals of the big data portion of the project, its current status and steps underway. A Q&A session will conclude the session.

CAE Tech Talks are also recorded

Recordings of live presentations are posted to the website below:

https://capitol.instructure.com/courses/510/external_tools/66

Pdf versions of the presentations are posted to the website below:

https://capitol.instructure.com/courses/510/files

Contact

CAE Tech Talk events are advertised thru email and posted to the news and calendar section of the CAE community website: www.caecommunity.org

For questions on CAE Tech Talk, please send email to CAETechTalk@nsa.gov

COSC Faculty Meeting Monday, April 2, 2018 at 8:00 am

I.   Who are we and why are we here?
   a. Dr. Ben Rafoth, Professor, English Department; The Jones White Writing Center
   b. Ms. Krista Sarraf, Doctoral Student, Composition and Applied Linguistics
   c. Ms. Jing Zhang, Doctoral Student, Composition and Applied Linguistics
      i.   We are all working with Dr. Farag on the CNAP grant, whose goal is to improve technical and communication skills among cyber security students in rural western PA.
      ii. We are here to (1) acquaint you with what we are doing, (2) to invite you to take advantage of resources to benefit your students, and (3) to give us your feedback on a brief questionnaire).

II. How are we helping Dr. Farag's students improve their writing?
   a. We are using a strategy: Assign, Require, Revise, Reply.
      i.   Dr. Farag gives his students a writing <u>assignment</u>
      ii. The assignment <u>requires</u> students to meet with a tutor or submit asynchronously
      iii. The student drafts, <u>revises</u>, and edits – with assistance from the tutor.
      iv. The tutor sends Dr. Farag a brief report of the visit (<u>reply</u>).
   b. Tutors are trained and supervised [Alex Ashcom, Criminal Justice?; Alyssa Chesnutwood, Biology; Emily O'Donnell, English Education; Hunter Sargent, Computer Science; Maddie Hornstein, Biochemistry and Computer Science; Tori Murray, History and Anthropology?]

III. What resources are available?
   a. For students: Tutoring is available (1) face-to-face in Stright and Eicher; and (2) synchronously and asynchronously on our website. Additional help is available in our growing collection of videos and help sheets.
   b. For faculty: We provide Faculty Reports for tutoring sessions; We can coordinate your assignments with the tutors; We have cut-and-paste text for your syllabus on our website.

IV. What does our research tell us about the writing skills of cyber security students and professionals?
   a. Students report that they are very confident they have the writing and speaking skills they need.
   b. Students report that they use online resources such as Grammarly.
   c. Professionals report that they do a lot of writing (much more than they expected when they were college students)
   d. Professionals report that their biggest challenge is adjusting their writing for different audiences.

Quick Survey

Please respond to the following.

1. Do you give your students assignments that require them to write more than a paragraph or two? (circle one)

| **Hardly ever** | **Sometimes** | **Often** | **Almost always** |

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2. In general, how would you rate the quality of your students' writing? (circle one)

1	**2**	**3**	**4**	**5**
Unclear			Clear	Unable to Judge
Disorganized			Organized	
Wordy			Concise	
Error-filled			Error-free	

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3. Would you be interested in learning more about any of the following resources available to you? (please check)

❑ **Short videos on topics related to effective writing**

❑ **Handouts for students (available electronically)**

❑ **Workshops for your students**

❑ **Tips for faculty on designing writing assignments**

❑ **Tips for grading writing**

❑ **One-to-one tutoring for your students**

❑ **Other: (please describe)**

If you checked any of the boxes above, please provide:

Name: _____ **E-mail address:** _____

4. Would you be interested in resources for your students on any of the following topics? (please check)

❑ **Using technical and nontechnical language**

❑ **Email communication**

❑ **Organization**

❑ **Transitions**

❑ **Thesis statements**

❑ **Paragraphs**

❑ **Sentence structure**

❑ **Punctuation**

❑ **Grammar**

❑ **Word Choice**

❑ **Proofreading**

❑ **Other: (please describe)**

When finished, please fold and we will collect. Thank you.

ENDURING SUPPORT

att #4

Tutoring

- 1 GA @ $24,000 ($14,000 out-of-state waiver + $10,000 stipend).
  - Tutors' wages @ $5,400 (20 hours per week x $9 x 30 weeks).
  - Software @ $300

  Total: ~ $30,000

Possible funding or personnel for:

Internships
Paid (preferable) or unpaid for summer or during academic terms

Shadowing
For any period of time from a couple of hours, a day, a couple of days, to longer

Mentoring
Advisor to guide student(s) in their professional/academic pursuits

Speakers
For cybersecurity-related events, e.g., Cybersecurity Day events, workshops, summer camps, classes, and any other that might publicize and inform public and prospective practitioners

Expert Instructors
Guest lecturers, workshops, summer camps