



Northeastern University

Cooperative Education Program College of Computer and Information Science

Sharing Data: What Masters Students and Undergraduate Students accomplish while on their Co-ops/Internships/Experientials and What employers requests through their job descriptions. Version 1022010

Faculty Focused Based on Data

Dear Colleagues,

For those of you interested in knowing more about what our students have been doing on their cooperative education assignments, I'd like to share some of that information. The question I explore is "What do our students accomplish while on their co-ops/internships/experiential assignments?"

I have tried to summarize the outcomes of their experiences:

Our students continue to increase their exposure to a wide range of technical experiences as observed in the "word analysis" of the text information I collect.

Below I have provided links for you to view examples of the "word" frequencies in the context in which the words appear.

I encourage you to give me feedback on how to provide you with relevant data.

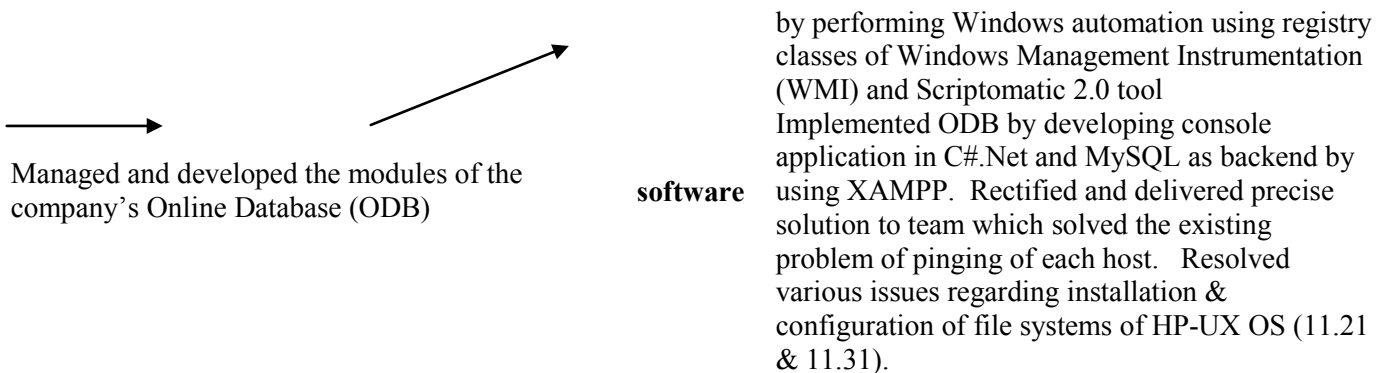
If this gets distorted in your e-mail use the following .pdf link:

http://www.ccs.neu.edu/co-op/research/Sharing_Data.pdf

The following is an example of the "word" frequency". Further down are the links for the specific context.

STUDENT DESCRIPTIONS SMFALL 09		EMPLOYER DESCRIPTIONS Sp09		STUDENT DESCRIPTIONS Sp08		EMPLOYER DESCRIPTIONS Sp08	
WORD	frequency	WORD	frequency	WORD	frequency	WORD	frequency
SOFTWARE	168	DEVELOPMENT	17	DEVELOPED	40	DATA	40
APPLICATION	152	MEDIA	16	SOFTWARE	32	DEVELOPED	28
TEAM	146	SOFTWARE	15	APPLICATION	24	SOFTWARE	28
TESTING	144	DESIGN	13	CODE	24	TEST	28
SYSTEM		JAVA	9	TEST	24	DATABASE	27
		ABILITY	8	DATABASE	22	SYSTEM	27
		C++	6	JAVA	22		
65 Students		15 managers		38 students		30 managers	

Using word frequencies from the text descriptions submitted by employers and students. This data is still in somewhat raw formatting. I used Concordance software to compile and other tricks to try to share what I have.



Graduate Information: How to view the information:

- Start on the bottom left side of the excel sheet with the **index** tab.
- Next you will see a list of the word frequencies.
- Select a word and observe how it has been used in a variety of assignments.
- Read the descriptions from left to right. The word in the middle is in context usage.
- Investigate the links below:
- [Students 09 summer fall Grd responses](#)
- [Employers 09 spring Grd responses](#)
- [Student 08 spring Grd responses](#)
- [Employers 08 spring Grd responses](#)
- [Student 07 spring Grd responses](#)
- [Student fall 07 GD responses](#)
- [Employers 07 fall Grd responses](#)

Undergraduate Information: How to view the information:

- Start on the bottom left side of the excel sheet with the **index** tab.
- Next you will see a list of the word frequencies.
- Select a word and observe how it has been used in a variety of assignments.
- Read the descriptions from left to right. The word in the middle is in context usage.
- Investigate the links below:
- [student 08 Summer II Fall UG HTML.mht](#)
- [student 08 Spring Summer UG HTML.mht](#)
- [employer 09 spring UG excel.mht](#)
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- (1) **Where our students acquire their skills and the importance**, both for undergraduates and graduates, presented separately. The data is in power point presentations. It may take a few seconds to load.

Graduates:

http://www.ccs.neu.edu/co-op/research/Graduatestudents_knowledge.mht

Undergraduates:

http://www.ccs.neu.edu/co-op/research/Undergraduates_knowledge.mht

(2) **What employers ask for through their job descriptions**, excel sheets.

Graduates:

http://www.ccs.neu.edu/co-op/research/what_employers_want_GRD_HTML.mht

Undergraduates:

http://www.ccs.neu.edu/co-op/research/what_employers_want_UDG_HTML.mht

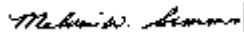
Employer Focused Based on Data

Developing a *Quality* Cooperative Education Assignment

http://www.ccs.neu.edu/co-op/employers/Quality_assignments.html

Creating a Job Description as a Marketing Hook...

http://www.ccs.neu.edu/co-op/employers/Job_Description_Document.html



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