Winter 2021 Co-op Project Report – COMPUTER STUDIES

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Introduction

Co-operative Education combines traditional, in-class learning with the hands-on experience. Co-op is wonderful opportunity to all the students make the contacts in their industry and gain hands-on experience related to their field of study prior to their graduation. Through the co-op program students are able to alternate academic study with full-time employment. It is very valuable to undergraduate students and allow them to explore their career and give them invaluable work experience.

Report Section 1: Job Search Reflection

Searching the new job is exceptionally difficult during the COVID outbreak because most of the companies in our industry are laying off employees and traditional ways of hiring is also disrupted. I face many challenges during my job search sometimes related to experience needed in industry or sometimes lack of extra knowledge in particular field. Even we are good candidate for all the jobs that we applied but hundreds of people apply to that job, only few of the resumes are pulled out of the line for interview. I realize that the chances aren't good for my resume to be chosen for any one specific work so it pays to go after number of positions to increase the probability that one will work out. I used number of resources to search the co-op placement but mainly I rely on LinkedIn and Georgian Connects. I tried to increase my network through LinkedIn and used to apply jobs from there as well. I used to search on Google about the companies who hires the co-op student and apply on their websites but I received the mail back from some of places that they cancelled their co-op position due to pandemic and work from home.

Economy of any nations plays the important role on the jobs in the market. If the economy rises then the job vacancies also increases and when the economy faces fluctuations then it put direct impact on jobs and leads to deficiency of jobs. The main skill that I developed and used in my

job search is communication skills. Either it's oral or written communication both play the important role in every industry because with these skills we can tell the other person about ourself and what is going in our mind. At any workplace it is important to transfer our thoughts to our other team members for the smooth and better completion of work. I was active on LinkedIn to explore jobs and trying to make the contacts with those people of my industry who can help me to get hired. The second most important skill on which I worked and used during in my work search term is Time Management Skills. Time management is very important in our professional and personal life. In our work search term, we have to manage the time between our studies and applying to jobs. We have to manage the time in proper way to complete our all tasks on time for the proper functioning of organization. So, to get the perfect job we need to acquire and demonstrate some extra traits of skills other than our education to stand out of line from other candidates.

Everyone makes the mistakes first time. So, as I also make some mistakes in my work search term which might be reason of not getting the co-op placement other than COVID-19. I didn't enroll in any online certification course during my earlier semester thinking that only college studies are enough to get the job. It was very late when I realized that I need to be enrolled in some extra online courses to enhance my knowledge and skills. But being a good learner, I learned from this mistake and get enrolled in some online certification course in my work term and completed two courses and planning to do some more courses during my next semester to get the co-op placement in my next work term. I used LinkedIn learning which is completely free for Georgian College students and Coursera website to complete my online certification to take the benefits from them in my future work term. COVID-19 changes the lifestyle of everyone and forces us to think in a new way. It increased the usage of online platforms in our daily life. Although, I am in IT field but I like to communicate and meet with people physically not online, which is biggest drawback in my work search term. I didn't make enough industry

connections on virtual platforms because I was not so comfortable in virtual communication. But to improve this mistake in my next work search term, I started working on it. First, I saw some videos to how to feel comfortable in online communication and topics to choose in online communication. It rises my confidence and encourages me to start the networking online. Now I am trying to make contact within my industry in all over the world using online platforms like LinkedIn and other social media websites. From this work term, I started working on my networking skills which might be beneficial in my future work search term and in my whole life. I believe that failure isn't losing, its learning. That's why, I learned from this failure and worked on it to get successful.

Report Section 2: Industry Connections, work term learning outcomes

Through my networking, I conduct the informational interview of Aman Sansowa. He is Operations Analyst in TD Bank. His contact number is +1 647 671 1452 and email address is amansansowa@gmail.com .

There are number of tools that allow to work collaboratively remotely on the program code. GitHub is widely used platform to collaborate online and it allow user to share the code and files on a Online directory. Through the sharable link of this online directory subordinates and read or rewrite the code again. Google Collaboratory is a cloud based sharable notebook which can be used to develop codes and upload huge datasets that can be shared with your team through a simple link. Microsoft teams is a great place to share excel document and power point PPT's which allow multiple users to work on same file and make updates independently. It also provides chatting window for the better communication between team members.

Kanban board is an agile management tool that can be used by individual/ team to visualize the different steps within a project. The simplest form of Kanban board consists of three sections – 'To Do', 'Ongoing', 'Done'. Users can select the steps from 'To Do' list and move it to

'Ongoing' section of the board, indicating that they have selected and started working on that task. As soon as that section of project is completed, they can move it to 'Done' section, indicating that the task was completed. Additional sections such as 'Testing' or 'Challenges Faced' can be introduced in the Kanban table depending on the complexity of the project.

Most of times code is divided into units, that are the smallest possible parts of the code then they are tested independently. Additionally, code coverage can indicate what percentage of code was tested. In corporate environment there are multiple jobs that are responsible to perform periodical health check of the application/ codes. The logs of these jobs can suggest if any breaks were detected and then they can be fixed to prevent the impact.

Despite of the fact that Google is good source for troubleshooting, in some cases developers need to dig little deeper to discover the appropriate result they're looking for. There are number of ways that engineers can look for reference when Google or Stack Overflow aren't producing any results, either it's open-source code reviews or using notes from previous projects. Every developer uses open-source components and online discussion forums as their first preference in the process of troubleshooting followed by Google search and using specific discussion forum like Stack Overflow. Almost 85% of development functions have been broken endlessly by the designers all over the world. With the exact keyword, I can discover the solution to my troubleshooting question in few seconds. While these online resources are very useful and easy for troubleshooting but the most reliable resource for troubleshooting is team of experience and knowledgeable developers.

There are some ways that entry level programmers can use in building their troubleshooting skills. They can enroll in the online courses other than their college studies to enhance their and knowledge to get some experience of industry equipment's and resources because the working of industry is completely different than what we learn in college. GitHub is invaluable

tool for programmers in their early stages of career. New commers should practice large number of projects to sharpen their troubleshooting skills. In short, the best way to develop troubleshooting skill is practice more and more projects by which you face more problems and gain experience in troubleshooting.

One of the biggest challenges that we come across while working with the teams of other disciplines is communication barrier. Most of multidisciplinary team projects failed because of lack of communication. In our daily working we need to collaborate with teams of other discipline to solve the complex issues or to achieve to common goal. For smooth and effective completion of task we need to demonstrate the clear communication and conduct the team meeting frequently. Every team should respect the member and opinion of other teams. While working on interdepartmental projects it is important to maintain dignified relationship with each other. This can only be achieved by acknowledging the work of each other and sharing the credit with all the participants.

Report Section 3: Changemaker in Residency Week Reflection

In this period of COVID-19, we understand the importance of technology in our life. In these difficult times technology increased its importance and contribution in businesses and help people to work online from their home. As all the businesses are using the online platform to work, there are different type of collaboration and communication tools they are using depending upon their needs and usage. These apps emphasis on virtual team work which is important for the smooth work from home process. Most of companies used cloud-based collaboration and communication apps which are reliable and can store unlimited data in them and all employees can easily login to their portal. These apps allow user to share media and display screen which plays important role in visual communication between team members. Some most commonly used digital collaboration and communication apps are Slack

(Messaging app), Zoom (Video Conferencing app), Teamwork (Project Management app). GitHub and CodePen plays the important role in IT industry share code and projects to team members. When the right collaboration and communication tools are used in any industry that fits into their needs, then we observe the terrific change in the productivity of the team.

No matter how much we are developed, there is always a room for improvement that is termed as innovation, entrepreneurship, and changemaking in particular field. Although the stream of Information Technology is very developed but still it's some branches need improvement and change which will beneficial for mankind and our nature. The most important part of concern with technology is data security. Now we are heading towards the cloud storages, but till date it's not that much safe that we upload our all-personal details. If there is any lack in the security system of service provider then our data can be misused easily against us. According to me, there is lot of changes need to be made to this part of technology to make the humans safe online. There is popular book by Ranjith Adlakadi named as, "Information is Wealth". This book highlight of issue of data security as greatest concern and can act as disaster in upcoming times if not addressed properly. We need to work on this to secure our information so that it cannot be used against human beings. The second opportunity I can see in my field for innovation and changemaking is Better recycling process of technological products. We can only recycle some of components and rest is e-waste, which is degrading our environment. We need to make such a sustainable model which minimize this waste and utilize most of components again in remaking of our products. Some companies dispose their e-waste in landfills which is completely against our environment and polluting the land and affecting its fertility. According to 2016 report from the University of British Columbia found that Canadians generate approximately 725,000 tonnes of e-waste each year, and only 20 percent of it is recycled properly.

From every moment of our life, we learn something. By attending these sessions, I develop many skills and learn about new things. The best part of these sessions is diversity. We discussed about number of different topics and issues which need to be change for the betterment of humans. These sessions help me to develop my communication skills, during these sessions I talked to different people with different origin and different opinions. We all share our opinions and think how we can make the change or be the part of change? The best part of these sessions was breakout rooms. The organiser makes the breakout room of 4-5 people to discuss on common issue to make it easier for everyone to communicate and share their views. This gives too much confidence to me to express myself in public even in my real life. Either its life or career we all need to make some changes in it for our growth and to address the problems. These sessions encourage me to make a change or be the part of it. Now I am very much excited to solve the social problem and work for society. Although these sessions were on virtual platform but my experience of attending these sessions is far better than the physical workshops or sessions. Mural played the important role to make these sessions successful. It is completely new for me. I never listen about mural but my experience with it is terrific. It was amazing to see number of people working on same piece of paper.

Conclusion

Co-op is a wonderful opportunity for all new comers which provides them a chance to penetrate in industry and gain some experience. But we need to work hard and use some strategies to find the co-op placement. COVID-19 puts the very negative impact on the economy which results in lack of co-op jobs for students. Because of technological advancements, most of companies managed to tackle this difficult time by opting work from home. Innovation and change making is very important for our environment and society. Everyone should work to make some impactful and positive changes to our society for the betterment of humans and environment.

References

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>
> jobtalkaug2007&title=Reflections%2Bon%2Bthe%2BJob%2BSearch%2B-
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Date	Job Title	Where did you find the lead?	Name of Contact (if avaliable)	Link to job posting (if online)	Company Website	Action Taken
September 21,2020	Co-op Data Analyst	Georgian Connects	Arpita Biswas	52548-https://careerandcoop.georgiancollege.ca/myAccount/co-op/postings.htm	www.hydroone.com	Applied
September 22,2020	Security Operations Inter	Georgian Connects	Nestor Naronha	52431-https://careerandcoop.georgiancollege.ca/myAccount/co-op/postings.htm	https://www.geotab.com/uk/	Applied
September 26, 2020	IT Co-op, Support Services- Greenhouse	Deloitte		(reference code 54784)	www.greenhouse.ca	Applied
October 2, 2020	Software Developer Co-op	LinkedIn		https://www.linkedin.com/jobs/view/2155334612/?refId=499457e0-ac55-435d-927a-5132c4d88fe7	https://www.intuit.com/ca/	Applied
October 2, 2020	Student - IT Systems Development	LinkedIn		https://www.linkedin.com/jobs/view/2183650968/?refId=8ff3dca0-9de4-47ca-85ad-5dd3f250c2b6	https://www.bankofcanada.ca/	Applied
October 3, 2020	Software Test Developer - 2021 New Grad	LinkedIn		https://www.linkedin.com/jobs/view/2279602789/?refId=828172199160728971708 2&trackingId=TeOfJha5uCDtgrjdiSPKFw%3D%3D	https://www.d2l.com/	Applied
October 3, 2020	Product Support Analyst Winter 2021 Co-op	LinkedIn		https://www.linkedin.com/jobs/view/2279602789/?refId=828172199160728971708 2&trackingId=TeOfJba5uCDtgrfdiSPKFw%3D%3G	https://www.d2l.com/	Applied
October 3, 2020	User Experience Researcher - Winter 2021	LinkedIn		https://www.linkedin.com/jobs/view/2279602789/?refId=828172199160728971708 2&trackingId=TeOfJva5uCDtgbhdiSPKFw%3D%3D	https://www.d2l.com/	Applied
October6 , 2020	Software Developer Intern	LinkedIn		https://www.linkedin.com/jobs/view/1992945746/?refId=d3a62eca-c7c1-45e9-a767-3c8f0dd522c8	https://www.konrad.com/	Applied
October 7,2020	Core OS Test Team	LinkedIn		https://www.linkedin.com/jobs/view/2174150283/?refId=2246f981-6e7a-477b-89cf-7f9bb20c9b11	https://www.blackberry.com/us/e	Applied
October 7, 2020	IT project Coordination Student	LinkedIn		https://bb.wd3.myworkdayjobs.com/en-US/BlackBerry/userHome	https://www.blackberry.com/us/e	Applied
October 15, 2020	Black berry Winter 2021 Student Opportuni	Georgian Connects		52719-https://careerandcoop.georgiancollege.ca/myAccount/co-op/postings.htm	https://www.blackberry.com/us/e	Applied
October 15, 2020	Client Service Representative	LinkedIn		https://cibc.wd3.myworkdayjobs.com/en-US/search/job/Toronto-ON/Client-Service-Representative--Hourly-_2017201	https://www.cibc.com/en/person	Applied
October 17, 2020	Cyber Security Assessment - Student Work Plac	LinkedIn		Career Opportunities: Career Opportunities	https://www.bankofcanada.ca/	Applied
October 19, 2020	Business Engagement	LinkedIn		myview.wd3.myworkdayjobs.com	https://www.loblaws.ca/	Applied
October 22,2020	R1000321 A&I Analyst - Co-op	LinkedIn		Workday (myworkdayjobs.com)	https://www.airmiles.ca/en.html	Applied
October 25, 2020	Technical Writer Student	LinkedIn		https://bb.wd3.myworkdayjobs.com/en-US/BlackBerry/userHome	https://www.blackberry.com/us/e	Applied
November 10, 2020	Webmaster	Georgian Connects	Sheila Givens	53059 -https://careerandcoop.georgiancollege.ca/myAccount/co-op/postings.htm	https://www.ontariocottagerenta	Applied
November 15, 2020	INTERNSHIP - Information Systems Applicat	LinkedIn		https://www.linkedin.com/jobs/view/2185728578/?refId=fb8cd203-0fc5-447e-b294-78078e85e69e	www.abb.com	Applied
November 26, 2020	Online Computer Tutor	Georgian Connects	Mr. Jacob Chevrier	https://careerandcoop.georgiancollege.ca/myAccount/co-op/postings.htm	www.georgiancollege.ca	Applied
November 26, 2020	IT Support Adminstrator	Georgian Connects	Ms. Emma McFarland	https://careerandcoop.georgiancollege.ca/myAccount/co-op/postings.htm	http://www.labxmediagroup.com	Applied
December 7, 2020	IT Project Coordination Student - 4 Month	LinkedIn		https://www.linkedin.com/jobs/view/1992945746/?refId=d3a62eca-c6c1-45e9-b767-3c9d0dd522c8	https://www.konrad.com/	Applied
December 13, 2020	Software Developer Inter	Georgian Connects	Adam Guay-Mosey	53303 -https://careerandcoop.georgiancollege.ca/myAccount/co-op/postings.htm	https://www.konrad.com/	Applied
December 13, 2020	Web Design/ Project Assitant	Georgian Connects	Loralei Price	53463 -https://careerandcoop.georgiancollege.ca/myAccount/co-op/postings.htm	www.georgiancollege.ca	Applied
December 14, 2020	Data Management Co-op Student	Georgian Connects	Justyna Chomiak	53509-https://careerandcoop.georgiancollege.ca/myAccount/co-op/postings.htm	https://www.caatpension.on.ca/en	Applied
December 17, 2020	Student - IT Systems Development	LinkedIn		Career Opportunities: Career Opportunities	https://www.bankofcanada.ca/	Applied
December 20, 2020	Co-op/Intern	LinkedIn		https://www.linkedin.com/jobs/search/?currentJobId=2339730885&pivotType=jymbii	https://www.jonahgroup.com/	Applied
December 23, 2020	Software Developer- Virtual Intern and Co-	LinkedIn		https://www.linkedin.com/jobs/search/?currentJobId=2338747223&pivotType=jymbii	http://www.geo-teck.ca/	Applied
January 04, 2020	Student Shared Record System Adminstrato	Georgian Connects	Brandon Andrews	53639 -https://careerandcoop.georgiancollege.ca/myAccount/co-op/postings.htm	https://www.ctnsy.ca/	Applied

Date	Title	Name of your facilitator
March 23, 2021	Social Procurement 101	Jenna Stevenato & Ashleigh Addison
March 23, 2021	Compelling conversations SDG#13 Climate Action	Nicole Norris
March 24, 2021	Compelling conversations: #ITSTARTS and SDG#10 - Reduced Inequities	Nicole Norris
March 26, 2021	Compelling conversations: SDG#16 - Peace, Justice and Strong Institutions	Shaylyn Mckay & Quentin Evans
March 26, 2021	Developing your LinkedIn Profile	Eric Mccrea