

PROJECT: Industry Exploration

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Achieving Success in Changing Environments

CST 8300

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Name the career you are interested in pursuing. Software Developer

| <u>Organization #1</u> | <u>Your Response</u> |
|--|---|
| 1. Name of organization | nanopay |
| 2. In your own words, describe the company –what do they do? What is their purpose? | They are financial technology company. They are trying to reimagine how payments are done through a blockchain-like system where each payment is “linked” to another and thus the encryption of each element is dependent on the previous ones. This is how crypto currency is done as well except they want to do it with fiat currency |
| 3. In your own words describe at least 1 unique innovation or program they have. | They use FOAM which is a framework that was created by their CTO when he worked at google |
| 4. Describe what you find most interesting about this organization. | The FOAM technology is fascinating but the idea of changing the world of finance is an exciting idea |
| 5. What education is needed to be hired with this company? | They require an aptitude for thinking, learning, and coding. But prefer Java, JavaScript, Swift and Android knowledge. |
| 6. What additional skills or qualification would enhance your resume to work for this company? | Knowledge in the financial district would be a great idea as well as knowledge of the FOAM framework |
| 7. What would be the average wage or salary for your level? | Straight out of school the average wage is about 49 – 55k |
| 8. References | <p>URL: https://www.glassdoor.ca/Job/toronto-java-javascript-developer-jobs-SRCH_IL.0,7_IC2281069_KO8,33.htm?rdserp=true&jl=3318576745&guid=0000016e62788ac58bb636d926a156bb&pos=104&src=GD_JOB_AD&srs=EI_JOBS&s=21&ao=483012</p> <p>Website Title: Help Us Keep Glassdoor Safe Access Day: 13 Access Month: November Access Year: 2019</p> <p>URL: https://www.nanopay.net/</p> <p>Website Title: nanopay Publication Day: 12 Publication Month: April Publication Year: 2019 Access Day: 13 Access Month: November Access Year: 2019</p> <p>Article Title: Payments Reimagined for Business and Banks: nanopay Corporation</p> |

| <u>Organization #2</u> | <u>Your Response</u> |
|--|---|
| 1. Name of organization | March Networks |
| 2. In your own words, describe the company – what do they do? What is their purpose? | This company develops IP Cameras and the applications to run and maintain them. Their purpose is to use video surveillance to better the world of business intelligence |
| 3. In your own words describe at least 1 unique innovation or program they have. | Searchlight integrates video with POS transactions to match transactions to videos This lessens the time it takes for loss prevention investigation |
| 4. Describe what you find most interesting about this organization. | What the company works with and how they manage the security of IP cameras. They need to have some good security considering the streams are through the Internet |
| 5. What education is needed to be hired with this company? | Bachelor's or master's degree in Computer Science or Engineering, or equivalent |
| 6. What additional skills or qualification would enhance your resume to work for this company? | Knowledge of IP camera technology JavaScript knowledge Network protocols |
| 7. What would be the average wage or salary for your level? | \$60,000 |
| 8. References | URL: https://www.marchnetworks.com/career/node-js-developer/ Website Title: March Networks Access Day: 13 Access Month: november Access Year: 2019 Article Title: Junior Javascript Developer (Node.js) - Multiple Positions |

| <u>Organization #3</u> | <u>Your Response</u> |
|--|---|
| 1. Name of organization | JSYK (British Columbia) [This is the one where my job wouldn't be typical] |
| 2. In your own words, describe the company –what do they do? What is their purpose? | JYSK is a retail company that sells Scandinavian based furniture. |
| 3. In your own words describe at least 1 unique innovation or program they have. | There is no data about the technologies used in the job |
| 4. Describe what you find most interesting about this organization. | Out of all the retail companies I've looked at they were the only one to host a computer development position in the careers page as the retail jobs. Another reason is their contribution to the Special Olympics |
| 5. What education is needed to be hired with this company? | Bachelor's Degree in a related field of study. Strong coding experience with C#, Web API, .NET, JavaScript. |
| 6. What additional skills or qualification would enhance your resume to work for this company? | I believe that my resume with my previous retail and web development jobs would be an asset to this company |
| 7. What would be the average wage or salary for your level? | I was unable to find any place that gave an adequate amount of a salary. Based on location it would be on average of \$69,000 |
| 8. References | URL: http://jysk.monstermediaworks.ca/job.php?id=3841 Website Title: JYSK Jobs – Find Retail & Corporate Careers JYSK Canada Access Day: 13 Access Month: November Access Year: 2019 Article Title: Jysk Jobs - Junior Software Developer |

| <u>Organization #4</u> | <u>Your Response</u> |
|--|--|
| 1. Name of organization | Bank of Canada |
| 2. In your own words, describe the company –what do they do? What is their purpose? | This is the Central Bank of Canada. They regulate the banks in the country of Canada. They help control things such as the interest rate |
| 3. In your own words describe at least 1 unique innovation or program they have. | They are working with machine learning and AI to determine the flow of the economy and better regulate the money |
| 4. Describe what you find most interesting about this organization. | It is the central bank. This is the main bank for Canada that regulates all the other banks. |
| 5. What education is needed to be hired with this company? | Bachelor's degree or college diploma in computer science with a minimum of two years of relevant work experience in the IT field |
| 6. What additional skills or qualification would enhance your resume to work for this company? | Python (A course in the current semester) is mentioned among the languages they use. Requires Secret Clearance |
| 7. What would be the average wage or salary for your level? | The posting states that the wage is between 61,500 to 72,626 |
| 8. References | URL: https://careers.bankofcanada.ca/job/Ottawa-%28Downtown%29-Developer-ON/537060017/ Website Title: Bank of Canada Access Day: 13 Access Month: November Access Year: 2019 Article Title: Developer |

| <u>Organization #5</u> | <u>Your Response</u> |
|--|---|
| 1. Name of organization | Distributel |
| 2. In your own words, describe the company –what do they do? What is their purpose? | This is a telecommunication company. They provide Internet, Home Phone, Television |
| 3. In your own words describe at least 1 unique innovation or program they have. | They are merging with smaller telco companies to be able to survive in the field dominated by Bell and Rogers |
| 4. Describe what you find most interesting about this organization. | They are trying to disrupt huge telco company in Canada, which will help break up and drive prices down |
| 5. What education is needed to be hired with this company? | Formal education in Computer Science or similar field 1-2+ years of professional software development experience |
| 6. What additional skills or qualification would enhance your resume to work for this company? | Knowledge of distributed systems and telco companies would be useful and help you. |
| 7. What would be the average wage or salary for your level? | \$55,000 |
| 8. References | URL: https://distributel.applytojob.com/apply/kZ9X91w4sb/Junior-Software-Developer?source=LINKR Website Title: Distributel Access Day: 13 Access Month: November Access Year: 2019 Article Title: Junior Software Developer |

What is a Co-Curricular Record?

The Co-Curricular Record (CCR) is a great resource for Algonquin College students to track, record, and print a record of their college-affiliated volunteer and leadership involvement. A Co-Curricular Record is an official non-academic record used to chronicle the activities that students engage in throughout the academic year. Not only will this document be complementary to an academic transcript, but also to a resume. The transferable skills obtained from volunteering at Algonquin College can contribute to increased employment opportunities!

(<https://www.algonquincollege.com/CCR/about/>)

Resume Tips & Template – What are your favourite three tips listed? (1 mark)

- Include your GPA if it is strong: e.g. above 3.0 / 4.0.
- full name followed by the acronym in parenthesis. e.g. Registered Massage Therapist (RMT) The acronym can be used alone for subsequent
- Do not put pictures on your resume

Cover Letter Tips & Template - What are your favourite three tips listed? (1 mark)

- INTRODUCTION: The introduction should answer the 4 “W’s” Who, Why, What and Where.
- Avoid word by word restatement of the resume
- Avoid presenting information not covered in the resume

Interview Preparation Tips – What are four things you should bring to an interview? (1 mark)

- Additional copies of your resume and cover letter
- A pen and paper for taking notes
- Your portfolio and samples of your work, when applicable
- Your references, neatly typed on a single sheet of paper

List the types of interview questions, in the order of the difficulty you think you would have with them. What can you do to prepare for difficult interview questions? (3 marks)

- Technical
 - i. Try coding on paper prior in the language they are most likely to use
- Introductory
 - i. Try to keep referring to potential good skills when describing yourself
- Behavioural
 - i. Look up possible questions and think back to how you dealt with it
- Situational
 - i. Google mock questions and answer them prior to the interview

Google FSWEP and click on the first link that comes up. In 3-4 sentences tell me what it's about (1 mark)

FSWEP is a federal government program. It is a program for students to get work with the government while in school and during the summer breaks. It works off a pool system where a department will specify criteria they require, and a group or “pool” of potential people will be given to them to determine if they would be a fit for such role.