Memorandum

To: Sandra Stark

From: Amirreza Yadollahibastani

Date: 8/21/2017

Subject: Co-Op Report

# Summary

As of May 1st, 2017 to August 23rd, 2017 I was hired by Indigenous and Northern Affairs Canada as a student developer under Post-Secondary Co-op/Internship Program. My team leader and supervisor’s name was Allyne Zimmerling .I have worked with several team members such as Brian McAmmond and Rachel Bélair.

Confidential

**Indigenous and Northern Affairs Canada**

Indigenous and Northern Affairs Canada (INAC) is the department in Government of Canada responsible for meeting the Canada's legal obligations and commitments to Aboriginal peoples. INAC is also responsible for fulfilling the federal government's constitutional responsibilities in the North. I worked as part of Innovation, information and Technology branch. The Innovation, Information and Technology branch provides information and different services to the Department. This branch is responsible for development of many financial and database applications used within and outside of the department.

Trust Fund Management System (TFMS)

I worked with several team members on Trust Fund Management System (TFMS) Project. TFMS is a financial application that creates transactions between Canada budget system and individual bank accounts. TFMS is also responsible for managing first nations’ financial accounts and applications. During my co-op term, I maintained back-end and front of project. Many applications in INAC department use CSLA Framework and consider this as the best practice to manage business rules. This project required me to learn CSLA in order to be able to work on back-end of project. Other technologies used in this application were C#, visual basic and PL/SQL on an oracle database. I worked closely with the consultant and our team tester to resolve issues faster and in a more consistent way. My other responsibilities were consisted of implementing the new templates; modifying Html and CSS, work with Ajax, JavaScript and bootstrap framework.

**Work Environment**

Our workplace was separated by cubicles. Each cubicle was shared by only one person. My workplace included a windows 7 machine with the required development software and IDEs. Through my daily tasks, I worked with Visual Studio 2015 and PLSQL Developer (Not an Oracle product) to write database queries or maintain database procedure. TFMS is written in Visual Basic and currently they are in process of upgrading the application to newer technologies such as C# with newer version of .NET and MVC framework.

**Skills acquired**

My lessons in Web Programming and Programming both helped me prepare for my daily tasks. My skills in debugging were some of the most important technics I’ve learned at school that helped to be prepared for any bug and issues that were found assigned to me. In addition to my current set of skills, I had to learn how to work with test track pro in order to be able to manage different tasks and bugs. I familiarized myself with MVC architecture and CSLA framework and learned implementation of these technologies on backend of project.

Inter personal skills learnt in mocking interviews with the clients at school also helped me to communicate more effectively and resolve clients issues faster in client meeting sessions.

**Evaluation**

I think students are well prepared for their co-op term. However, understanding the software development process in an enterprise environment in advance would help students to understand the organization faster and easier.

**Conclusion**

In conclusion, it was a great experience working for Indigenous and Northern Affairs Canada (INAC) as a student developer; I’ve learned to work with different languages and in a different programming environment. Definitely these new set of skills will help me with my future studies and career.