**Work Term Objectives Proposal**

**Name:** Gunpreet Ahuja

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**Job Title**: Technology Analyst

**Organization**: Morgan Stanley

**Department**: Institutional Securities Technology (IST)

**Supervisor Name**: Pascal Forget

**City**: Montreal

**Start and End Date**: May 7, 2018 – August 17, 2018

**Project Description**

The aim of my project is to rewrite the SOAP Listener process in Java. The current code base is in Perl. An end-to-end framework needs to be created.

Advantages of having a Java based project over Perl includes -

     1. Enhanced monitoring, alerts and metrics generation.

     2. Use widely supported infrastructure and open source libraries.

     3. Utilize the benefits of powerful machines.

     4. Better time to market, testing infrastructure and less risk prone.

**Role in the Project**

My role is that of a Junior Java Programmer/Analyst. I will be acting as a developer in this project – coding the Java SOAP Listener. Besides this, I will be doing requirements analysis and testing the actual code along with deployment of the developed SOAP Listener. Furthermore, I will be documenting all the phases throughout the lifecycle of the project.

**Tasks required to be performed**

The tasks required to be performed as a part of SDLC (Software Development Life Cycle) to keep track of the progress of the project include: **Requirements Analysis, Test Plan, Designing, Coding, Testing, Documentation, Deployment** and **Release**. The requirements analysis phase requires me to study the Perl file, extract the functionalities of the SOAP Listener from the file, study the tests built for the project to dig further into the functionalities, document the functionalities extracted and get them approved from the owner and the testing team. The next phase, Test plan, is about documenting the testing scope and activities. Designing would match the requirements to components, interfaces and behaviors. Coding phase involves the actual development work whose output would be the Java SOAP Listener. This gives the input for the testing phase. Finally, documentation will be done of the complete Listener, followed by Deployment and Release of the SOAP Listener. This would verify that the java solution gives exactly the same solution as the PERL program.

**Skills Expected to be Acquired**

My priority would be to improve my coding skills and gain good familiarity with various tools and technologies: Java, Jenkins, Junit, Watchtower, MQ, etc. Furthermore, I should gain the knowledge of SDLC along with Jira, Jenkins, Git, Gradle, etc while working on the project. Having a good knowledge of LINUX’s commands is also an expected skill to be acquired. Apart from this, learning about Morgan Stanley business and building a network of professional contacts are of importance. In general, I would also focus on improving Communication, Leadership, Research, Organization and planning, Problem solving and Time management skills.

**Supervisor:**

Gunpreet will demonstrate leadership skills by taking ownership of her project, from requirements gathering to design, coding, testing and deployment.

Gunpreet will learn how to manage her times and delivery timelines by using Jiras and communicating to the rest of the team by means of skype conversations, emails and Scrum meetings.

Gunpreet will communicate with other stakeholders, thereby learning the subtle aspects of human interactions between developers, product owners, quality assurance team and dev ops.

Gunpreet will have the opportunity to improve her oral presentation skills when she will showcase her project in front of 50 people at the end of the internship.

Gunpreet will be asked to come up with clean, simple and robust solutions to the problems she will have to solve, thereby gaining meaningful experience in that area.

**Job Performance Objectives**

1. **Supervisor**:  
   Understand and document the requirements.

Deliver a bug free, well designed, coded, tested and documented implementation.

Clearly communicate issues and status with other team members.

Ability to meet deadlines consistently.

1. **Student**:   
   I aspire to deliver quality code and meet the set deadlines, document everything that I discover, develop and work on, complete development phases on time, help team members (if needed), complete the required training, attend regular team meetings and prepare status reports to improve communication amongst team members, follow a strategic plan for the project and deliver the required documents for each of the SDLC phases.

**Professional and Personal Objectives**

1. **Supervisor**:

Demonstrate ability to work in a team.

Demonstrate pro-activeness, self-motivation.

Learn and apply new skills.

Learn how software development process works in a large organization.

1. **Student**:   
   My professional objectives include learning more about the new office, familiarizing myself with new technology, gaining upward feedback from team members **to establish further what can be improved upon, improving my presentation skills, gaining a more in-depth perspective of how departments within the company are run, network, and increasing my performance metrics.**

My personal goals include improve my communication skills, confidence, get along with others, embrace empathy, stop procrastinating, and make better decisions.