SEG3902

CO-OP WORK-TERM REPORT (Winter 2014)

**AGILE SOFTWARE DEVELOPMENT**

CNW MediaVantage

By

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Presented to Professor Thomas Tran

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Abstract

Introduction

Recommendations

MediaVantage

CO-OP Program

Conclusion

Bibliography

Appendices

VI Recommendations

B MediaVantage

I sincerely believe that Nakina Systems was a great place for a CO-OP placement. Everyone that I have met or worked with was extremely welcoming and ready to help and mentor me with anything I needed throughout the term.

The most helpful of these people was my manager. During the first couple of weeks, and throughout the entire term, she spent many hours teaching me everything I needed to know, from how the testing procedure works to writing weekly status updates to reporting product bugs on my own. It was a great environment to learn important skills such as how to work in teams on one project as well as more technical skills such as upgrading systems using Unix commands, writing test cases and running them efficiently.

I believe that this was an important position for me to have as a CO-OP student, as it is related to my program yet it is a popular position for software engineering students to take. Although I was not involved in much coding, I was able to look at software at a completely different angle, from the customer's point of view, and analyze the functionality and usibility of the products that Nakina was selling them. For that reason, I would recommend this placement to other junior software engineering students.

A CO-OP Program

For this work term, I was able to find my own placement early on in the school year. The CO-OP office made the process of making this placement with Nakina count as part of my work term very simple. Previous help with preparing for an interview helped when it came to my interview with Nakina.

I would maybe encourage the CO-OP office to communicate a little more with their students throughout the work term. The advantage to doing so would be that students will keep in mind that CO-OP is a credited program and it would keep them up-to-date with what’s new in CO-OP as well as with upcoming deadlines.

In general, I found the CO-OP office very reliable for students. Every time I had a question, I called in and got an answer immediately. It’s a program that I highly recommend!

VII Conclusion

In conclusion, it is evident that the verification of a product, such as Nakina's NI-Director, needs to be thorough and complete. After four months of performing test cases I have come to understand the real importance of proper product verification and its impact on the software development process. With the future advancements in technology, it is my opinion that product verification will become more demanding as software complexity increases and customer expectations are raised.

Throughout my work term, I was able to relate some concepts and knowledge learned through my classes and personal experience to my daily tasks. Through new challenging projects and assignments, I am able to pick up many new lessons and will incorporate such information into future applications. I had the chance to experience all aspects of verification for one of the company's major products that exercised my new software testing skills. I would recommend this position to any other software engineering, computer engineering or computer science student looking for a work term, as it provided an eye-epening perspective on software engineering from the product verification point of view.

I would like to sincerely thank all employees of MediaVantage for granting me the opportunity to be a part of their group and to learn from their expertise. I gained valuable hands-on experience with the development of the CloudCity release of MediaVantage as well as I greatly expanded my knowledge about good general software development practices. Most importantly, I gained interpersonal and team skills by working with a brilliant and collaborative team who took the time to train my CO-OP and me peers. I valued my time at MediaVantage and hope to be able to carry on all that I have learned into my future projects.**BIBLIOGRAPHY**

[1] Nakina Systems Overview – Nakina Systems, http://nakinasystems.com/company/company.php, visited August 11, 2013

[2] “Telecommunications Act of 1996”, *fcc.gov*, http://transition.fcc.gov/telecom.html, visited August 20, 2013

[3] “Networking”, Jeffrey S. Beasley, *Pearson Education, Inc*, 2004

[4] Steven Lockey, MediaVantage Senior Software Developer

[5] Mark Bason, MediaVantage Software Developer

[6] NI-Director Operations Installation Guide, Release 8, *NI-DirectorOperationsConsoleInstallationGuideR8April02.pdf*

[7] NI-Director Operations Console Guide, Release 8.3, *NI-DirectorOperationsConsoleGuide8.3July29.pdf*

[8] “A Network Element Management Solution”, Yvan Gosselin, *IEEEXplore.IEEE.org*, October 18, 2001, [Telecommunications Energy Conference, 2001. INTELEC 2001. Twenty-Third International](http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=7748), visited August 20, 2013

[9] “Object-Oriented Software Engineering – Practical software development using UML and Java”, Timothy C. Lethbridge and Robert Laganière, *McGraw-Hill Education*, 2001

**SUPERVISOR’S APPROVAL**

As supervisor of CO-OP student **Samira El-Rayyes**, I, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, certify that, to the best of my knowledge, this report is entirely the student’s work and is free of confidential information to the extent that it can be read by university faculty members.

Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_