ADAM GENCARELLI

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EDUCATION

University of Western Ontario, London, Ontario 2016

- Currently in third year of Software Engineering, candidate for Bachelor of Engineering Science.

TECHNICAL SKILLS

- Languages: C++, C#, Java, JavaScript and JQuery, NodeJS, HTML, CSS, SQL
- Technologies: Microsoft Visual Studio, Eclipse, MySQL, IBM Rational Rose, IBM Rational Requisite
- Experience in object-oriented programming; developing, testing and debugging code.
- Experience working with both Windows and Linux (Ubuntu) operating systems.
- Strong understanding of web technologies such as XML, AJAX, JSON, and ReST.
- Strong understanding of algorithms and data structures, coding time complexities, and software design patterns.
- Knowledge of the client/server architecture and programming asynchronously.
- Proficient with relational databases in MySQL, and non-relational databases in MongoDB.
- Proficient with operating commands such as Git commands using the Windows command line or Linux terminal.

ENGINEERING EXPERIENCE

Reversi Board Game, University of Western Ontario November 2014 – December 2014
Operating Systems

- Created the board game Reversi as a two player game where clients could join a game lobby and compete.
- Used a combination of Java and C languages to create a client-server architecture for communication.
- Implemented many game algorithms using Java, and a GUI using the Java Swing library.

Stock-IT!, University of Western Ontario November 2014
Web Technologies

- Constructed a website that allowed users to view the top 100 NYSE stocks, and store their own stock portfolios.
- Used NodeJS server code with HTML, JavaScript and Bootstrap client code.
- Integrated with the Passport API for user authentication, and the Yahoo Finance API for stock information.

Ontario Green Button Database, University of Western Ontario November 2014
Database Management Systems

- Developed a complete design for a relational database for Ontario's Smart Meter data.
- Implemented the database using MySQL to store information in five separate relational tables.
- Completed the database with a NodeJS application that provided full functionality to users and their data.

Stock Market Observer Application, University of Western Ontario November 2014
Software Requirements and Analysis

- Developed a Stock Market application using Windows Forms and following the Observer design pattern.
- Created C# code involving inheritance, interfaces and abstract classes to handle stock market requests.
- Application's main purpose is to update accurate information in all locations simultaneously when stocks are sold.

Student Manager GUI Application, University of Western Ontario February 2014 – April 2014
Algorithms and Data Structures

- Created a fully functional GUI application using Java programming in the Eclipse environment.
- Implemented several different data structures, such as dictionaries, queues, and linked lists.
- Utilized many sorting algorithms such as merge sort, quick sort, and radix sort.

iPermit Design Model, University of Western Ontario February 2014 – April 2014
Software Design

- Exercised UML Design to create a complete model of a permit review web application.
- Created Use Case Models, Class Diagrams and Sequence Diagrams to depict the design of the system.
- Applied Design Patterns, such as Chain of Responsibility and Mediator, to create Java code for the system.

WORK EXPERIENCE

City of Kingston - Public Works Department, Kingston, Ontario Summer 2014
Municipal Landscaping

- Performed a delegated list of tasks on a weekly schedule; tasks included grass cutting and trimming, flower maintenance, tree trimming, and garbage collection.
- Demonstrated teamwork and initiative to complete all tasks successfully within a group of four students.
- Demonstrated safety and compliance in the workplace at all times with the assistance of extensive WHMIS training.

McDonald's Restaurants, Kingston, Ontario 2010 - 2013
Crew Trainer

- Collaborated with other crew members and management staff in order to ensure the kitchen and service areas were working together to fulfill orders with fast and friendly service.
- Promoted from Crew Member to Crew Trainer after one year; actively trained new employees, providing them with the proper information and safety requirements to perform effectively.

AWARDS AND SCHOLARSHIPS

Deans Honour List, University of Western Ontario May 2014

- Awarded for achieving an academic average of 80% or above.

Western Scholarship of Excellence, University of Western Ontario August 2012

- A scholarship awarded upon entrance for achieving an academic average of over 90% in six university level secondary school courses.

Award of Excellence, Holy Cross Catholic Secondary School June 2012

- Awarded to a student who demonstrates a strong involvement in extracurricular activities while maintaining an academic average of 90% or above.

Leadership Award, Holy Cross Catholic Secondary School May 2012

- Awarded to an athlete who demonstrates exceptional leadership abilities in a team environment. Awarded while acting as Captain of the Senior Volleyball Team.