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Summary

Second year Computing Science student at University of Alberta. Enthusiastic about learning new topics in the field and applying the knowledge on projects from the previous experience.

Education

University of Alberta

BSc in Computing Science with Specialization in Software Practice

2013 - present

Queen Elizabeth Secondary School

Graduated from high school with an average of A - grade and a scholarship

2011-2013

Programming Skills

Python

- Programmed a game called Hangman that required the user to guess the mystery word with less than 6 mistakes
- Wrote a program that read and summarized the data from a file containing the information. The program performed actions like opening and closing the file, reading the file and extracting the data in a proper way and finally outputting the results
- Made a Codebreaker program that decrypts the words using the associated values
- Wrote a program to check if the given Sudoku has valid digits or not
- Program that discards from a deck of cards in a special order
- Wrote some recursion related codes such as generating strings with a particular hamming distance, determining all the possible ways to choose 6 numbers a set of numbers, converting a tree to a binary tree
- Program to implement a chained hash table ADT

C/C++

- The weekly labs tested our knowledge on the topics such as pointers, classes, structures, bit-fields, File I/O, typecasting, templates, multithreading, arrays, strings, overloading, inheritance, dynamic memory etc.

Database Skills

- **Oracle:** Wrote SQL queries that performed various DDL and DML tasks like data insertion, deletion and retrieval of data from different tables. Designed and implemented a database application for an auto registration system. This was a client-server application in which the data was stored in the Oracle Server in the lab, and the entire application program was developed using python.
- **Berkeley DB:** Currently working on the project that introduces file structures, access operations and their performances. The project involves writing code in python using Berkeley DB libraries to set up and populate a set of tables and then conducting some interesting experiments focusing on various types of queries.

Algorithms and Logic

- Studied time complexity of different algorithms such as merge sort, learned Euclid's algorithms for GCD, RSA public key cryptography, gauss multiplication and divide and conquer algorithm. Studied graphs in detail along with greedy algorithms, dynamic programming and induction by proofs and their uses in real life.
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Present Volunteer Activities

- **Ada's Team** **Jan 2015 - Present**
Treasurer of Ada's Team, a group of students at the University of Alberta dedicated to promoting diversity in computing, games, and technology.
- **Campus Food Bank** **Jan 2015 - Present**
Team member at Campus Food Bank, a registered charity dedicated to eliminating hunger on the University of Alberta campus. I help the group by making food hampers for the people in need and help out with the fund raising activities.

Past Volunteer Activities

- **President of the Math Club** **December 2012 - June 2013**
In club, we focused on areas such as helping students with their homework, practice for contests, and play math games. I distributed the tasks to the members of the club every week and made sure that everyone knows about their role
- **After School Tutoring program** **January 2012 - June 2012**
Volunteered at school in after school free tutoring program where my job was to help students overcome educational difficulties with Mathematics 8, 9 and 10.
- **Student Union** **October 2012 - June 2013**
Member of Student Union club where I helped the team by raising money for the scholarships and also to feed and clothe the homeless.
- **Green Team** **October 2012 - June 2013**
Member of Green Team, where I contributed by providing eco-friendly environment to the school by using different techniques such as recycling, cleaning etc.

Interest/Activities

- **Coding for fun:** Planning to work on a project that will involve online dictionaries and later making an android app after acquiring the required knowledge in the field.
 - Part of the Hip-hip club at U of A **Winter 2014 , 2015**
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