Renchen Sun

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JUNIOR PROGRAMMER

with solid experience of C++ & DBMS with a strong foundation of computer science

Summary	

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A self-motivated student with excellent academic records (3.92 / 4.00 GPA), relevant 2 years programming experience in C, C++ with 10 projects on Github, and 1 year experience in Database Management System.

Area of expertise:
- Programming: C++, C, Bash, OOP, SDLC, UML, SVN
- Database design: SQL, ERD, Oracle 11g, Oracle Data Modeler, IBM DB2
- Web design: HTML, CSS, Javascript, PHP
- Operating system: Unix, Linux, Windows

Qualification

- Strong programming skills in C, C++, and OOP
- In-depth knowledge of DBMS
- Excellent verbal and written communication skills
- Intermediate knowledge of software development lifecycle (SDLC)
- Intermediate web design skills in HTML, CSS, Javascript, and PHP
- Intermediate knowledge of data structures, algorithm
- Quick and passionate learner, eager to face challenges and improve skills
- Highly reliable self-motivated starter

Education

University of Waterloo
Bachelor of Geomatics with Computer Science Minor ---- 2012 - 2014 (Expected)
Grade: 3.92 out of 4.00 GPA
Honor: Dean's Honor List (Received on May 2013)

China University of Geosciences (Wuhan)
Bachelor of Computer Science ---- 2010 - 2014 (Expected)
Honor: National Scholarship (Top 1%) (Received on December 2011)

Project

Digital Camera Purchasing System --> Commercial database
Model each entity with attributes and relationships between each other. Use Oracle 11g for database construction. Insert data and query information by employing SQL.
Applied Techniques:
  ➢ Oracle Data Modeler, Oracle SQL developer, SQL, EERD

The Game of Quadris --> C++ video game
Analyze software specifications. Employ UML for modelling classes and relationships. Apply design patterns. Utilize Xwindow for graphical display.
Applied Techniques:
  ➢ C++, Observer Pattern, Singleton Pattern, Decorator Pattern, UML, Xwindow

Family Tree Tracker --> N-tree & Recursive Algorithm
A C++ program which tracks family members by employing N-nray tree data structure.

Applied Techniques:
- ➢ N-nary tree data structure, recursion algorithm

Arithmetic Evaluator --> Arithmetic Parser
Evaluate Reverse Polish Notation (RPN) from user inputs, evaluate inputs and print out fancy expressions.
Applied Techniques:
- ➢ C++, OOP, UML

Personal Website --> Web design
Link: csclub.uwaterloo.ca/~r26sun
Applied Techniques:
- ➢ HTML, CSS, JavaScript, PHP

Experience

Fall 2013 Environment Ambassador, University of Waterloo
September 2013 - Present | Waterloo, Ontario
- ● Responsible for introducing Geomatics to those students who are interested in applying
- ● Responsible for guiding and assisting students in terms of their future major selection
- ● Responsible for taking visitors for building tour at University of Waterloo

Human Computer Interaction (HCI) of whole-body computer interface (Volunteer)
August 2013 | University of Waterloo
- ● Cooperatively finished all tasks of body movements to interact with computer
- ● Completely reported all issues during the research including positiveness and negativeness

Data structure Teaching Assistant, China University of Geosciences
June 2012 – July 2012 (2 months) | Wuhan, Hubei, China
- ● Successfully helped many students debug their program and figure out potential bugs in their programs
- ● Comprehensively explained linked list, graph theories, trees, sorting algorithms for many students

Director of Publicity Department of Faculty of Computer Science, China University of Geosciences
August 2011 - June 2012 (11 months) | Wuhan, Hubei, China
- ● Events organizer, responsible for promoting contests of Web Design, Flash, ACM, etc.