

# Renchen Sun

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## JUNIOR PROGRAMMER

Composing extensive knowledge of C++ & DBMS with a strong foundation of computer science

### Summary

Junior 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:

- Software development: C++, C, Java, Bash, OOP, SDLC, UML
- Web design: HTML, CSS, Javascript, PHP
- Database design: SQL, ERD, Oracle 11g, Oracle Data Modeler, IBM DB2
- Operating system: Unix, Linux, Windows

### Qualification

- Strong programming skills in C, C++, and OOP
- In-depth knowledge of Database Management System
- Intermediate program testing knowledge
- Intermediate web design skills in HTML, CSS, Javascript, and PHP
- Intermediate knowledge of data structures, algorithm
- Proven quick and passionate learner, eager to face challenges and improve skills
- Excellent verbal and written communication skills
- Highly reliable self-motivated starter, can be counted on to complete assignments

### 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

#### The Game of Quadris - C++ video game

A C++ solution of a video game in Linux/Unix platform with graphical windows. Analyze software specifications. Apply Object-oriented software engineering techniques. Identify classes and relationships among classes. Draw UML diagram to model designs. Code, Debug, test and optimize the program.

Applied Techniques:

- Observer Pattern, Singleton Pattern, Decorator Pattern, UML, Software testing, Xwindow

#### Digital Camera Purchasing System - 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

#### **Personal Website - Web design**

Link: [csclub.uwaterloo.ca/~r26sun](http://csclub.uwaterloo.ca/~r26sun)

Applied Techniques:

- > HTML, CSS, JavaScript, PHP

#### **Family Tree Tracker - Data structure & Algorithm**

A C++ program which tracks family members by employing N-nary tree data structure.

Applied Techniques:

- > N-nary tree data structure, recursion algorithm

#### **Auto-testing Shell Script - Shell**

Developed a shell script which is useful for auto-testing of programs.

Applied Techniques:

- > Shell Programming

## 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 in University of Waterloo

#### **Human Computer Interaction (HCI) of whole-body computer interface**

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 in our faculty
- Poster maker, responsible for promoting events such as Web Design Contest, Flash Contest, ACM contest, etc.