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| **Renchen Sun**  #3004 J.R Finn, 290 Westmount Road North Waterloo, ON N2L 3G3  Cell Phone: 519 - 591 - 9660  Email: [r26sun@uwaterloo.ca](mailto:r26sun@uwaterloo.ca) Website: [csclub.uwaterloo.ca/~r26sun](http://csclub.uwaterloo.ca/~r26sun) LinkedIn: <http://www.linkedin.com/in/renchensun>  JUNIOR PROGRAMMER  Composing extensive knowledge of C++ & DBMS with a strong foundation of computer science |

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| 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](https://github.com/Ray-SunR), intermediate java programming skills, 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 * In-depth understanding of data structures, algorithm * Intermediate program testing knowledge * Intermediate web design skills in HTML, CSS, Javascript, and PHP * 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, Factory Method Pattern, Template Method 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-nray 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 |