

Renchen Sun

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IBM Canada Corporate offices
IBM Canada Ltd.
3600 Steeles Avenue East
Markham, Ontario L3R 9Z7

Re: Software Developer

Dear Recruiter for IBM Canada Limited,

I am excited for the possibility of bringing my talents to IBM Corporation in the position of Software Developer as advertised on Jobmine of University of Waterloo. With my excellent academic background, and solid experience of Object-oriented programming and database technology. I am confident that I can make solid contributions to this organization.

During my study at University of Waterloo, I achieved 3.92 out of 4.00 GPA. On top of that, I am proficient in programming in C++ for software development with relevant 2 years experience of using this programming language, utilizing DBMS (Oracle 11g, IBM DB2) for data management and applying problem-solving and communicating skills to solve complex problems. With strong programming skills in C++, I have posted 10 projects on [Github](#). One of the projects is the Game of Quadris, a C++ implementation of Tetris which employed Object-oriented software engineering techniques and graphical interface. What is more, I have nearly one year experience of using DBMS such as Oracle 11g and IBM DB2. One of the databases I have developed is the Digital Camera Purchasing System which I applied databases design techniques such as data modeling, entity relationship diagram, and SQL. In addition, I have solid experience of debugging programs either by using GDB in Xnix environment or using IDE. With excellent academic background, solid knowledge of database technology, proficiency in programming, and a strong foundation of computer science, I am confident that I am one of the best candidates for this position in this organization.

I would appreciate the opportunity to further discuss my future with IBM. I am currently available from 1:00 - 3:00 pm on Monday, Wednesday, and Friday; 4:00 - 6:00 pm on Tuesday and Thursday. I have attached my resume detailing my outstanding academic and strong technical skills.

Thank you, your time and consideration is highly appreciated. I look forward to speaking with you about this exciting opportunity.

Kindest Regards,

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JUNIOR PROGRAMMER

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

Summary

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.