

Renchen Sun

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Arista Networks Inc
Suite 350, 3605 Gilmore Way
Burnaby, British Columbia
Canada V5G 4X5
R&D Office

Re: Software Engineering

Dear Recruiter for Arista Networks Inc,

I am excited for the possibility of bringing my talents to Arista Networks Corporation in the position of Software Engineering as advertised on Jobmine of University of Waterloo. I am impressed by the software defined cloud networks solution for large data center and high-performance computing environments that Arista Networks provides. With my excellent academic background and solid experience of Object-oriented programming, 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, 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. In addition, I am familiar with classical algorithms and passionate for data structures. In April 2013, I made a family tree tracker which employed N-tree data structures and applied many recursive algorithms. What is more, I am an enthusiastic and quick-learner. In my spare time, I learned more computer science knowledge and took more computer science courses at University of Waterloo compared to other Geomatics students. In August 2013, I spent three weeks learning web design technologies, and then I developed my personal website. Even more, I finished a CS course which focuses on Object-oriented software development in July 2013. In that course, I can always finish assignments quicker than other CS students and get higher marks (98%) than the average (40%). The final mark for me in this course is 95%. With excellent ability to learn new technologies quickly, 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 Arista Networks. 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 extensive knowledge of C++ & OOP 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.