

# Renchen Sun

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Adastra Corporation  
Le Parc Office Tower  
8500 Leslie Street, Suite 600  
Markham, Ontario  
Canada L3T 7M8

Re: Junior Data Warehouse and Business Intelligence

Dear Recruiter for Adastra Corporation,

I am excited for the possibility of bringing my talents to Adastra Corporation in the position of Junior Data Warehouse and Business Intelligence as advertised on Jobmine of University of Waterloo. I am very impressed by the services such as business intelligence, data integration, and data quality that Adastra provides. With my excellent skills and solid experience in programming and database, I am confident that I can make solid contributions to this team.

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 GIS applications (ArcMap, ArcCatalog, FME) and techniques (Spatial Analysis, Network Analysis, Data Analysis & Management) 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 designed a spatial database for features on the campus of University of Waterloo by employing Oracle Spatial, data modeling, data integration, and data conversion techniques. When it comes to business intelligence, I have experience in the analysis of the transportation system in Vancouver, which can support decision-making for travellers to travel around the city more efficiently. With in-depth familiarity with GIS techniques and a strong foundation of computer science and ability to learn quickly, I am confident that I am one of the best candidates for this position in your team.

I would appreciate the opportunity to further discuss my potential opportunity at Adastra. 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,

Renchen Sun

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## JUNIOR PROGRAMMER & GIS ANALYST

with extensive knowledge of DBMS & GIS 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:

- Software development: C++, C
- Database design: SQL, ERD, Oracle 11g, Oracle Data Modeler, IBM DB2
- GIS analysis: ArcMap, ArcCatalog, FME
- 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
- In-depth knowledge of data integration, management, analysis, and conversion
- Excellent verbal and written communication skills
- 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

#### **Spatial Database for features on the campus of University of Waterloo --> Geospatial database**

Extract, transform, and load raw CAD data from the campus to ArcObjects by using FME. Fix topology errors either by fixing topology or by manually digitizing objects. Create spatial database in ArcMap. Create spatial indexes for querying information. Create Metadata for spatial database.

Applied Techniques:

- > ArcCatalog, ArcMap, Spatial Database, FME, SQL, Cartography

#### **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

### **Transportation Analysis for Travellers in Vancouver --> Analysis for supporting decision-making**

Use open data from Vancouver to evaluate transport stations accessibility in terms of travelling cost, distance, and nearby landmarks. Refine and transform data by utilizing FME. Use Oracle spatial and SQL for creating spatial index and querying information to support decision-making.

Applied Techniques:

- Oracle Spatial, SQL, ArcMap, ArcCatalog, FME, Spatial Database, Cartography

### **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

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

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