

Renchen Sun

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JUNIOR PROGRAMMER

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

Summary

- > Excellent academic performance with 3.92/4.00 GPA
- > Strong programming skills in C, C++ with twenty projects on [Github](#)
- > Exposure to Android Development, Java, Bash, Python
- > Experience in OOP/OOD
- > In-depth knowledge of Database Management System (Oracle 11g, IBM DB2)
- > Sound understanding of data structures, algorithm
- > Familiarity with Linux/Unix/Windows platform
- > Proficient in using Eclipse, Xcode, Codeblock, Vim programming tool
- > Proven quick and passionate learner, eager to face challenges and improve skills

Education

University of Waterloo

Bachelor of Geomatics with Computer Science Minor ---- 2012- 2014 (Expected)

Grade: 3.90 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)

Grade: 91% cumulative

Honor: National Scholarship (Top 1%) (Received on December 2011)

Project

toDue - Android App

- > Developed using Java under Unix platform using Android Framework
- > Designed User Interface and applied GUI components in the application
- > Help users list their tasks/assignments/works and their priorities and due dates

The Game of Quadris - C++ video game

- > Comprised 3000 lines of code
- > Developed using C++ under Linux platform using X windows
- > Applied five design patterns (Observer, Singleton, Decorator, Factory, Template)
- > Model system using UML, UCD, DFD

Digital Camera Purchasing System - Database

- > Analyzed and developed the DB system from scratch
- > Modelled entity relationships using Enhanced ERD and Oracle Data Modeler
- > Used SQL for querying information using Oracle SQL Developer

Business Information System for Sun Life Health Clinic (SLHC) - System Analysis

- > Analyzed the process for healthcare professionals and increase efficiencies
- > Developed CD, UCD, DFD diagrams to model the system
- > Designed database prototype to store data and make queries more efficient (e.g profit information, employee salaries)

Experience

Data Structure Teaching Assistant, China University of Geosciences | June – July 2012

- Marked students' assignments, and final projects by providing feedback on how to improve understanding of concepts
- Taught students various data structures and algorithms and increased their understandings

Fall 2013 Environment Ambassador, University of Waterloo | September - December 2013

- Introduced Geomatics to students interested in applying to the program
- Guided and answered students' questions about their future major selection
- Took visitors for building tour at University of Waterloo

Human Computer Interaction (HCI) of whole-body computer interface, University of Waterloo | August 2013

- Improved software by ensuring body movements interacted with computer for user experience
- Reported all issues about positive and negative effects of the research