Ruijie Sun

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Education

Bachelor of Management (business, cGPA3.7)
Beijing Forestry University   2011 to 2015

Bachelor of Science (Computer Science Specialist and Statistics Major, cGPA3.8)
University of Toronto   2016 to present

Skill & Knowledge

Programming Languages: Python, R, C, Java, SQL&JDBC

Engineering Tools: GDB debugger, Git, IntelliJ IDEA, PyCharm, Java FX, Latex

Knowledge: Statistical Inference, Low-level Operating System Programming, Data Structures and Algorithms, Mathematical Probability, Linear Algebra, Calculus

Work Experience

STRATEGY&RISK COOP, ONTARIO TEACHERS PENSION PLAN, TORONTO 2018.09 - PRESENT

•   Conducted an analysis project to support the risk modeling and monitoring processes for the enterprise risk system using Python, R, SQL and MDX.

•   Assisted in the preparation of reports and presentations to senior leaders and the Board of Directors on risk modeling, budgeting and monitoring

•   Implemented and catered to on-demand requests from S&R and various departments across the Fund

CONSULTANT INTERN, KPMG INCUBATOR, BEIJING   2016.04 - 2016.08

•   Coordinated multiple road shows for start-up companies from China and Taiwan

•   Conducted current state demand analysis for both potential investors and start-up vendors

Project Experience

GOGO PHOTO MANAGEMENT PROGRAM DEVELOPMENT (JAVA)

• Designed program architecture applying Object Oriented Programming concept and following SOLID principles to achieve low coupling and high cohesion targets

• Applied multiple design patterns , such as MVC Pattern, Observer Pattern, Factory Pattern, and Strategy Pattern

• Performed unit test to debug for functionality stability

POLITICAL ELECTION DATA ANALYSIS (SQL)

• Wrote multiple complicated SQL queries to distill the insight of a historical political election dataset, such as finding all strong parties(A strong party is one that has served (as a winning party or part of a winning alliance) before at least one European Parliamentary election and in every period before every European Parliamentary election.)

CAR RENTAL DATABASE DESIGN (SQL)

• Designed a schema for a Car Rental database

• Implemented JDBC methods to extract key informations

MANCALA SERVER PROJECT(C)

• Implemented an server for Mancala game which allows unlimited players to join and play a game called Mancala

COMPRESSION ALGORITHM DESIGN (PYTHON)

• Developed a compression and decompression program based on Huffman Coding to optimize compression efficiency