

JESSICA CLAIRE

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PROFESSIONAL SUMMARY

Strong skills in statistical analysis, data mining and statistical programming using R and Python to solve business problems

SKILLS

Programming Skills: Python, SQL, Java, C/C++ Tools: R, WEKA, MS Project Professional Computers: PC, Mac, Microsoft Office Professional Skills: Strong math, analytical, and problem-solving skills Language Skills: English, Chinese, and Uyghur Language
• Business development
• SQL and databases
• Data mapping
• Creative

EDUCATION

Illinois Institute of Technology, College of Science
Chicago, IL • May 2017

Master of Science: Computer Science (Data Analytics)

Donghua University
Shanghai, China • Jun, 2013

Bachelor of Science: Electrical Engineering

Donghua University
Shanghai • Jun. 2013

Bachelor of Science: Electrical Engineering
Electrical Engineering

WORK HISTORY

Illinois Institute Of Technology - Database Design Project
City • 08/2014 - 10/2014

- Database Design Project (SQL) Developed a management system for cinema to store, manipulate and search movies and tickets by customers and staff Designed an ER-model and translated the model to relational schema for a management system of cinema Created and implemented a desktop application using JAVA Swing, JDBC and ORACLE.

Illinois Institute Of Technology - Advance Data Mining (R)
City • 2015 - 04/2015

Developed a new feature that can decompose the simple stars into several grades related with a particular topic in which customers show interest based on the reviews from Yelp academic datasets. Used Python to preprocess the dataset from Yelp. Used R to do Latent Semantic Analysis and Latent Dirichlet Allocation. Used machine learning, data mining and other algorithm to improve the ranking on Yelp.

Illinois Institute Of Technology - Pairs Trading Strategy (Python)
City • 2016 - 03/2016

Developed the pairs trading strategy for EWA&EWC using 6-year daily data Reconstruct time series by using Fast Fourier transform Generated dynamic beta by using Kalman Filter Controlled the risk by setting target profit, stop loss, and trailing stop to exit the position at the best time Optimized the performance by Genetic Optimization Algorithm Examined the result by the back testing, taking into account commission Generated intraday signal, and connected to IB

Illinois Institute Of Technology - NYC Subway System Analysis (Python & R)
City • 08/1 - 10/2016

Collected the data from the real time feed (MTA) and did data cleaning and interpretation to build the historical data Used Dijkstra's algorithm to find shortest path from start point to end point

LANGUAGES

English, Chinese, and Uyghur Language