

YIFAN LI

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Project folder: https://github.com/liyifan5923013/DataScience_demo

INDUSTRY EXPERIENCE

Java Developer Chugach Alaska Corp., Contractor for NOAA Sept 2013-April 2014

- Designed the database schemas for National Weather Service-BMH project, using PostgreSQL database
- Debugged BusinessManager.java so that make it more efficient, from $O(N^2)$ to $O(N)$

Velocity Software Engineer Cerner Corp. April-June 2013

- Used JUnit, Mockito and PowerMock for unit-testing and mocking. Utilized Eclipse+Maven for building the environment, and VMware Cloud to access the environment

EDUCATION

Columbia University, Fu Foundation School of Engineering and Applied Science, New York, NY

Master of Science, Computer Science Sept 2011-February 2013

Integer Programming

Analysis of Algorithms in Java

Introduction to Database

Introduction to Unix Command

Advanced Software Engineering

Advanced Programming in C

Beijing University of Posts and Telecommunications(BUPT), International School, China

Bachelor of Engineering in Telecommunication

Sept 2007-June 2011

with 1st class Honor degree(top 25%)

Programming Fundamentals in C

Object Oriented Design in Java

Internet Protocol

PROJECT EXPERIENCE

“Data Science projects”, General Assembly in DC March 2014-Current

- Building predictive models in R and python, using R-Studio and IPython(Anaconda)
- Working with KNN, Naive-Bayes, Linear Regression, Logistic Regression, Tree and SVM techniques

“Assets Returns Volatility and Investment Horizon: The French Case”, Georgetown U March-April 2014

- Simulated the French assets return with the United States quarterly data in CPI, treasury bond, short-term interest rate, to test the horizon effects(effect of investment time on investment return)
- Used Augmented Dickey-Fuller(adf.test) and Vector Autoregression(VAR) functions in R

“Happy Schedule System”, Columbia University March-May 2012

- Built an optimized scheduling system model to increase the total happiness of students
- Utilized CPLEXAMP solver, solved an Integer Programming problem on 31 students with 1000+ variables

“Data-Wrangling using Python”, Columbia University Sept-Dec 2012

- Retrieved data from the FBI website(HTML) to get the data from 180 countries in the world
- Using the data to answer questions like which country has a flag of colour green and speaks Spanish

“Database of Soccer Team”, Columbia University Sept-Dec 2011

- Worked on Relation/Entity Diagrams, SQL Schema to manage information about the soccer team
- Implemented the schema in Oracle, using SQL PLUS: Create Tables, insert tuples, write desired queries

SKILLS

Languages:

Python, R, JAVA, C, CPLEX for AMPL, HTML, SQL

Operating Systems:

Linux(RedHat), Mac OS X, Windows