

# YIFAN LI

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project folder: [https://github.com/liyifan5923013/DataScience\\_demo](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 BuisnessManager.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

**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 course”, General Assembly March-May 2014

- Building predictive models in R and python, using R-Studio and IPythonNoteBook
- 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

- Simulate the French assets return with the United States quarterly data in CPI, treasury bond, short-term interest rate, to get the effect of time on asset return
- Use Augmented Dickey-Fuller(adf.test) and Vector Autogression(VAR) functions in R

“Happy Schedule”, Columbia University March-May 2012

- Invented an optimized scheduling system model-“Happy Schedule”, to build a schedule system on the total happiness of the crowd.
- Utilized CPLEXAMP solver, solved an Integer Programming problem on 31 students with 1000+ variables

“Web-Scrawling using Python”, Columbia University Sept-Dec 2012

- Retrieved data from the FBI web site to get the desired result
- Using data to get the country list that has a particular colour in their flags

“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, CPLEX for AMPL, C, Java, HTML, SQL

Operating Systems:

Linux(RedHat), Windows, Mac OS X.