Yifan Li

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PROFESSIONAL EXPERIENCE

Chugach Alaska Corp., Silver Spring, Maryland

Java Developer   Sep. 2013-Apr. 2014
- Participated in the re-design of the database schemas for NWS-BMH project(38 tables)
- Improved core Java classes to make the server logic more efficient(one instance from $O(N^2)$ to $O(N)$)
- Injected weather station data to database utilizing Hibernate and Spring
- Wrapped the placeholder BMH code as a Eclipse plugin, to fit into existing plugin system(AWIPSII)

Cerner Corp., Kansas City, Kansas

Velocity Software Engineer   Apr.-Jun. 2013
- Implemented the Patience log-in program in Java utilizing maven for Eclipse
- Unit tested the final Java Program using JUnit, with Mockito and PowerMock for mocking.

EDUCATION

Columbia University, New York, NY

MS in Computer Science   Feb. 2013
Relevant Coursework: Analysis of Algorithms in Java, Operating System, Database System
                Unix Command, Programming Language and Translator
                Advanced Software Engineering, Database implementation, Mobile HCI

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

BS in Telecommunication Engineering with Management   Jun. 2011
Relevant Coursework: Programming Fundamentals in C, Object Oriented Design in Java, Internet Protocol

PROJECT EXPERIENCE

"Data science projects" using Python and R, General Assembly in D.C.   Mar. 2014-current
- Forecast sales using linear regression, regularization on Walmart store http://bit.ly/1nc2MQ7
- Performed data prediction and visualization using sklearn, numpy and pandas in Python and ggplot in R

"Assets Returns Volatility and Investment Horizon" using R, Georgetown University   Mar.-Apr. 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 Autogression(VAR) functions in R

"Let Me See NYC" website using PHP on XAMPP, Columbia University   Fall 2012
- Wrote server-side logic code to retrieve the itinerary information from Yelp and SeetGeek API
- Performed black-box testing and white-box testing before locating and removing the server-side bug

"Happy Schedule System" on CPLEXAMP, Columbia University   Spring 2012
- Built an optimized scheduling system model to increase the total happiness of students
- Solved Integer Programming problem on 31 students with 1000+ variables on CPLEXAMP solver

"Data wrangling" using Python, Columbia University   Fall 2012
- Retrieved data of 180 countries from FBI static HTML websites and output result based on queries

"Football team DBMS" on Oracle 10g, Columbia University   Fall 2011
- Simulated the operation of football teams and designed the database management system by using entity–relationship model diagrams and SQL schema
- Performed Update and Retrieval jobs on database system using SQL*Plus

ACTIVITES

"Devfest 2012" hackathon, named winner of "Best Business Model", Columbia University   Spring 2012

TECHNICAL SKILLS

Programming: **R, Python, Java, C, PHP, HTML/CSS, SQL**
Tools: **Eclipse, Git, Maven, PostgreSQL**
Operating Systems: Linux(RedHat), Windows, Mac OS X