Yifan Li

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PROFESSIONAL EXPERIENCE

Chugach Alaska Corp., Silver Spring, Maryland

Java Developer   Sep. 2013-Apr. 2014
- Participated in the redesign 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

"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

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

"Linux kernel development" using C, Columbia University   Fall 2012
- Added Linux kernel system calls and implemented read-write lock logic by spin lock and semaphore
- Injected a "Symmetric Multiprocessor Weighted Round-Robin" scheduler to original scheduler framework

"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

"Vending machine system" using Java, BUPT   Spring 2010
- Designed vending machine model by using UML, which required conceptual diagrams, sequence diagrams
- Implemented functions including transaction, stock and security management

ACTIVITIES

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

TECHNICAL SKILLS

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