**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(N2) 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

M.S. 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

B.S. in Telecommunication Engineering and Management with 1st class Honor 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-present

* 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 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

Member of IET(The Institution of Engineering and Technology) Fall 2007-present

**TECHNICAL SKILLS**

Programming: Java, Python, C, R, PHP, HTML/CSS, SQL

Tools: Eclipse, Git, Maven, PostgreSQL

Operating Systems: Linux(RedHat), Windows, Mac OS X