**Yifan Li**

**SUMMARY**

* Master’s degree in Computer Science from Columbia University
* Extensive experience in J2EE development
* Hard-working self-starter

**TECHNICAL SKILLS**

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

Tools: Eclipse, Git, Maven, PostgreSQL

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

**PROFESSIONAL EXPERIENCE**

**Java Developer, Chugach Alaska Corp., Silver Spring, Maryland**

**Sep. 2013-Apr. 2014**

* Participated in the 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(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)

**Velocity Software Engineer, Cerner Corp., Kansas City, Kansas**

**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**

**MS in Computer Science, Feb. 2013**

**Columbia University, New York, NY**

*Relevant Coursework*:

|  |  |
| --- | --- |
| * Analysis of Algorithms in Java * Operating System * Database System * Unix Command | * Programming Language and Translator * Advanced Software Engineering * Database implementation * Mobile HCI |

**BS in Telecommunication Engineering with Management, Jun. 2011**

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

*Relevant Coursework*:

|  |  |
| --- | --- |
| * Programming Fundamentals in C * Object Oriented Design in Java | * Internet Protocol |

**ACADEMIC PROJECTS**

**“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](http://bit.ly/1nc2mq7)
* Performed data prediction and visualization using sklearn, numpy and pandas in Python and ggplot in R

**“Let Me See NYC”** websiteusing 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

**AWARDS**

Winner of “Best Business Model” from “Devfest 2012” hack-a-thon, Columbia University, Spring 2012

**CLEARANCE**

Public Trust

**REFERENCES**

Available upon request