

# Yifan Li

1207 Ballard St, Silver Spring, MD, 20910 • yl2774@columbia.edu • 301-318-0363

## 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

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 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