

# Yanqing Zhou

1A Wachusett Street  
Worcester, MA 01609

(347) 413-2367  
yanqzhou24@gmail.com

## OBJECTIVE

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Fulltime job in software development

## EDUCATION

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Worcester Polytechnic Institute, Worcester, MA December, 2013

**Master of Science in Computer Science**

Georgia State University, Atlanta, GA August, 2011

**Master of Science in Bioinformatics**

Graduate Project: Laboratory Data Manager

Central China Normal University, Wuhan Hubei, China July, 2008

**Bachelor of Science in Biotechnology**

Honor: First-class of Award of Outstanding Bachelor's Degree

## PROFESSIONAL EXPERIENCE

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**Software Engineering II, Cisco, Boxborough, MA, USA** Mar 2014-Current

Working with the Anyconnect Vpn Project. Developed and sustained software functions on Windows, Mac and Linux by using C++ Visual Studio and Java Netbeans. Also worked with the Anyconnect per-app VPN for Android mobile platform. Managed and integrated code by Perforce. Reviewed and observed code by Smartbear. Designed and implemented XML file validation by using XSD schema.

**Software Engineering Intern, Fitvity, Worcester, MA, USA** May 2013-July 2013

Developed Fitvity Android app using Android SDK and IntelliJ Idea IDE. Managed and integrated code on BitBucket by Git. Stored and managed the data in the Parse Cloud Database. Designed and implemented comprehensive test suite for the app functional testing.

**Software and Web Development Intern, Aras Corporation, Andover, MA, USA** May 2012-July 2012

Designed and developed corporate website using JavaScript, HTML and VB. Transformed the corporate website from previously static content based into a dynamic content display from backend.

Added multi-languages support to the Website. Implemented and maintained functional regression and performance baseline test suites for the end-to-end testing.

## TECHNICAL SKILLS

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**Programming:** Java, C, C++, Matlab, Haskell, Visual Basic, HTML, JavaScript, Python.

**Big Data:** Hadoop, Weka, Data mining, Machine Learning.

**Toolkit Packages:** Android SDK, JDBC, Java Swing, Junit, XML, XSD schema.

**Databases:** Oracle 10g, Parse Cloud Database, MySQL.

**Code Management:** Git, Github, BitBucket, Tortoise SVN, Maven, Beyond Compare, Perforce, Smartbear.

**Integrated Development Environment:** Eclipse, IntelliJ Idea, Visual Studio, JavaBeans, Sublime Text3.

**Operating Systems:** Microsoft Windows, Mac OS X, Linux, UNIX.

**Network:** TCP/IP, Cisco, NS2, OMNeT++.

**Applications:** Adobe Photoshop, Macromedia Flash, Macromedia Dreamweaver.

## **ACADEMIC PROJECTS**

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**Worcester Polytechnic Institute, Computer Science Department, Worcester, MA**

### **Big Data Analytics Research Project, Fall 2013**

Designing and developing a project to analyze financial dataset. Researching suitable algorithm for Machine Learning. Using Weka to execute function algorithm and deal with the collected financial dataset for useful prediction. Constructed Hadoop on the campus servers to implement Map-Reduce function which improve the executing speed.

### **Indoor Wifi Localization and Outdoor GPS, Fall 2012**

Designed and developed the whole Android app using Android Developer Tools (ADT). Compared and improved data structure and database for signal wireless data collection. Designed and executed virtual testing case on simulator and physical testing case in campus. Documented the whole app API and project.

### **Design of Software System: KombatGames, Spring 2012**

Developed a Java-based competition game platform that consists a server to support 2 to 4 clients to play a multiplayer game simultaneously. Worked in the server team and build up the server side. Constructed and managed the database for server. Coded the database management commands for data operation by JDBC. Designed and specified related code implementation, Junit testing and integration testing.

### **Data Stream Management: Sensor Outlier Detection, Spring 2012**

Designed and developed a “sensor anomaly detection” system. Researched the anomaly detection technology in streaming environment. Implemented Streaming Half-Space Trees (HS-Trees) algorithms with Java and Maven on the Massive Online Analysis (MOA) framework for data stream mining.

### **Database Management: Forum System, Fall 2011**

Designed and developed a forum management system using JavaBeans. Constructed the local database on MySQL. Implemented the database operating commends. Settled and executed related test cases. Design and embellish the GUI using Java Swing toolkit.

**Georgia State University, Bioinformatics Department, Atlanta, GA**

### **Laboratory Data Manager (Thesis)**

Developed a laboratory information management system using MATLAB, which allows user to store, search and analyze experimental data and related notes. Designed and developed the core component of this system, a search engine, which filters and fetches required files based on given criteria.

### **Software Engineering: Inventory Control System, Fall 2010**

Collaborated with other teammates to develop a Java application to track product information in the warehouse, including the types, quantities, locations, and shelf life. Focused on patterns designing, price modification, and function implementation.

## **RELATED COURSES**

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Software Engineering, Big Data Analytics, Database Management Systems, Object Oriented Programming, Algorithm Design, High Performance Network, Operating Systems, Data Structures and Algorithms, Principles of Programming Languages.