**EDUCATION**

**Wake Forest University Winston-Salem, NC**

**M.S., Computer Science**, full scholarship, GPA: 3.89/4.00 08/2013 - 05/2014

**M.A., Mathematics**, full scholarship, GPA: 3.82/4.00 08/2011 - 08/2013

* *Specialization*: OOP programming, Algorithms, and Data Mining
* *Courses*: Object Oriented Software Engineering, Theory of Algorithms, Operating System, Big Data
* *Membership*: Upsilon Pi Epsilon, the International Honor Society for the Computing and Information Disciplines

**Wuhan University Wuhan, Hubei Province, China**

**B.S., Applied** **Mathematics**, GPA: 3.52/4.00 09/2007 - 06/2011

* *Award*: Honorable Mention (top 30%) in COMAP Mathematical Contest in Modeling against over 1,000 teams

**TECHNICAL SKILLS**

* Programming: Java/Android, SQL, C/C++, Python, PHP/HTML, MapReduce, Matlab, R, VB, SAS
* Platforms: Unix/Linux/VM, Oracle Server Database, Hadoop, Windows
* Tools: Version Control/git, Vim, Eclipse, SCRUM, Latex, Tableau

**PROFESSIONAL EXPERIENCE**

**Medical Informatics Analyst Intern, Wake Forest Baptist Health, Winston-Salem, NC** 05/2013 - 08/2013

* Implemented models for automated inference of patient problems from structured data in electronic medical records
* Generated a 10-page report of the models for further identification using SQL on Oracle Developer
* Clustered over 15,000 ICD9 (International Statistical Classification of Diseases) codes into 800 bigger categories
* Created detailed documentation for the two projects and instructions of using the projects’ results for future research

**Data Analyst Intern, Wake Forest Baptist Health, Winston-Salem, NC** 05/2012 - 08/2012

* Analyzed the characterization of over 810 million clinic data records using Oracle SQL Developer
* Visualized the results in Tableau, generated a 83-page report and delivered to hospital leaders and project directors
* Contributed to build the database warehouse with reliability analysis on the product database

**Research** **Assistant in Statistics Field, Wake Forest University, Winston-Salem, NC** 11/2011 - 08/2013

* Simulated digital ants’ random walk based on different kinds of distribution of pheromone using Matlab
* Presented a real-time simulation movie in front of PNNL (Pacific Northwest National Laboratory) sponsors
* Built statistical models using Markov chain, solved 4 systems of linear equations and obtained closed-form formulas
* Finished a thesis addressing random walks on different one-dimensional grids, passed and to be published

**PROJECTS**

**Mining in Tweets**, Python & SQL, Linux/Virtual Machine

* Targeted NC & NYC people’s tweets from Twitter using Twython API, and saved to local database using SQL
* Analyzed and computed NC & NYC people’s moods based on more than 45,000 tweets of textual data using Python
* Visualized peoples’ moods trend and presented the report in front of more than 35 audiences

**D-stress Android App**, Android Developer Tools (ADT), Eclipse IDE

* Developed an Android App for diabetes patients, helped monitor the patients’ various indicators
* Used Scrum methodology and agile development, collaborated with communication major students in this project
* Applied regression models to predict the trend of patients’ stress level and blood glucose level

**Hospital Reservation System**, MySQL & HTML/PHP, Linux

* Developed a complex, multi-table database for saving and retrieving appointment data, using MySQL
* Designed dynamic webpages to support appointment management, using HTML/PHP

**Music Player**, developed an applet to play MP3 files, supporting multithread tasks and real-time user input commands

**TCP Client/Server**, constructed communications between clients and servers using TCP Sockets, in C++ on Linux

**Network** **Configuration**, created hierarchical IP Networks using Linux routers on Linux

**Linux Shell**, wrote a mimic Terminal to execute Linux commands input, supporting redirections and pipes, using C++