Shuowen Wei

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Education

Wake Forest University	**Winston Salem, NC, U.S.A**

Master of Sciences in Computer Science, Full scholarship, GPA: 3.890   08/2013 - 05/2014

Master of Arts in Mathematics, Full scholarship, GPA: 3.815   08/2011 - 08/2013

- Focus：Statistics and Discrete Mathematical Models, Data Mining and Algorithms

Wuhan University	**Wuhan, Hubei Province, P.R. China**

Bachelor of Science in Applied Mathematics, GPA: 3.520   09/2007 - 06/2011

- Focus：Mathematical Models and Optimization, Statistics, Financial Mathematics

Skills

- Programming: SQL, Matlab, Python Java, C/C++, MapReduce, R, SAS, VB
- Documentation: Tableau, Vim, Latex, Microsoft Office
- Platforms: Oracle Server database, Unix/Linux, Hadoop, Windows

Experience

Medical Informatics Analyst Internship, Wake Forest Baptist Medical Center   05/2013 - 08/2013

- Automated inference of patient problems from structured data, generating SQL queries to target the data.
- ICD9 codes classification and clustering for the database warehouse (I2B2) at WFBMC

Data Analyst Internship, Wake Forest Baptist Medical Center   05/2012 - 08/2012

- Participated in building the database warehouse (I2B2) at WFBMC, worked with Dr. Yaorong Ge
- Inventory analysis on more than 810 million clinic data using Oracle SQL Developer
- Visualized the results in Tableau and delivered reports to hospital leaders and project directors

Research Assistant in Statistics Field, Wake Forest University   11/2011 - 08/2013

- Research on digital ants' random walk based on pheromone for cyber security, sponsored by PNNL (Pacific Northwest National Laboratory), Instructed by Dr. Kenneth S. Berenhaut, Dr. Errin Fulp
- A thesis addressing random walks on different one-dimensional grids is finished and passed, to be published

Leadership, **President of WFU CSSA (Chinese Students and Scholars Association)**   09/2013 - Present

- Lead CSSA to better serve as a bridge between the Chinese community and other communities
- Spread Chinese culture, organize celebration events like Moon Festival and Chinese Spring Festival

Recent Projects

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

- Employed Twython API to target interested data on Twitter and saved to local database
- Analyzed and visualized the results, generated reports and gave presentations

Dstress Android App, Java, Eclipse ADT

- Used Scrum methodology and agile development, worked with communication students in this project
- Helped monitor diabetes patients' various indicators , like blood glucose and stress level e.t.c
- Linear regression model to predict the trend of patients' indicators

Music Player, Java, Eclipse

- Supported multithread tasks, dealing with real-time user input commands

Awards and Honors

- Member of Upsilon Pi Epsilon (UPE), the first and only International Honor Society for the Computing and Information Disciplines   04/2014 – Present
- Member of Pi Mu Epsilon (PME), the U.S. honorary national mathematics society   04/2012 – Present
- Honorable Mention for COMAP Mathematical Contest in Modeling (**MCM**)   04/2010