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

Wuhan University **Wuhan, Hubei Province, P.R. China**
Bachelor of Science in Applied Mathematics, GPA: 3.520 09/2007 - 06/2011

Skills

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

Working & Research 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

- 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

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

Music Player, Java, Eclipse

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

TCP Client/Server, C++, Linux/Virtual Machine

- Communication between clients and servers using TCP Sockets

Network Configuration, Linux

- Created hierarchical IP Networks using Linux routers

Buffer Overflow, C++, Linux/Virtual Machine

- Exploited buffer overflow for vulnerable programs to spawn the local shell

Linux Shell, C++, Linux/Virtual Machine

- A mimic Terminal to execute Linux commands input, supporting redirections/pipes

Awards, Honors and Leadership

- Member of Upsilon Pi Epsilon (UPE), the first and only International Honor Society for the Computing and Information Disciplines 04/2014 – Present
- President of WFU CSSA (Chinese Students and Scholars Association) 09/2013 - 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