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Shuowen Wei

Education

Wake Forest University,

Winston Salem, NC, U.S.A

Master of Arts and Sciences in Computer Science, GPA: 3.667

08/2013 - 05/2014

Master of Arts and Sciences in Mathematics, GPA: 3.815

08/2011 - 08/2013

- Focus: Statistics and Discrete Mathematical Models, Algorithms
- Full academic scholarship offered by Wake Forest University

Wuhan University,

Wuhan, Hubei Province, China

Bachelor of Science in Applied Mathematics, GPA: 3.520

09/2007 - 06/2011

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

Skills

• Programming: C++/C, Oracle SQL/MySQL, Matlab, PHP/HTML, Android/IOS, SAS, R, Lingo

• Documentation: Vim, Latex, Tableau, Microsoft Office

• Operating System: Linux/Ubuntu, Windows/7/XP

Working & Research Experience

Big Data Analyst Internship

Winston Salem, NC, U.S.A

Biomedical Engineering Department, Wake Forest Baptist Medical Center

05/2012 - 08/2012

- Participate in building the database warehouse (I2B2) at WFBMC, work with Dr. Yaorong Ge
- Analyze the characterization of 750 million clinic data by Oracle SQL Developer and Tableau
- Visualize the results by Tableau and deliver reports to hospital leaders and project directors

Research Assistant in Statistics and Discrete Mathematics Field

Winston Salem, NC, U.S.A

Department of Mathematics, Wake Forest University

11/2011 - Present

- Simulation on digital ants' random walk based on pheromone for cyber network security by Matlab, Sponsored by PNNL (Pacific Northwest National Laboratory), Instructed by Dr. Kenneth S. Berenhaut, Dr. Errin Fulp
- Present methods and conclusions to scientists from PNNL and ANL (Argonne National Laboratory)

Teaching Experience

Winston Salem, NC, U.S.A

Department of Mathematics, Computer Science, Wake Forest University

08/2011 - Present

- Teaching Assistant for Introduction to Computer Science, 2012Fall, 2013Spring
- Math Tutor in the Math Center of Wake Forest University
- Grader for Calculus I and II, Multivariable Statistics with R, Mathematical Models, etc

Other Projects

- C/C++ Project: Write a Linux shell to execute user input commands and also support redirections and pipes functionalities; Individual project on buffer overflow experiments in computer security course
- Mysql/PHP Project: A simple hospital reservation system allows patients to make or cancel appointments with specific doctors
- Matlab Projects: 1-D and 2-D simulations on digital ants' random walk based pheromone; Encrypting
 and decrypting color/grayscale BMP/JEPG images by ECB (electronic code book) and CBC (cipher
 block chaining) methods

Awards and Honors

Member of Pi Mu Epsilon, the U.S. honorary national mathematics society

04/2012 - Present

• Honorable Mention for COMAP Mathematical Contest in Modeling (MCM)

04/2010

• Second prize in Hubei Province for China Undergraduate Mathematical Contest in Modeling 10/2010

• Second prize in Huazhong District (contains nine provinces in the southern China) MCM

05/2009