JIAQI(JACKIE) ZHU

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EDUCATION

Master of Science in Industrial and Systems Engineering May 2014
Minor in Computer Engineering
University of Florida, Gainesville, FL
GPA: 3.89/4.00
Related Courses: Database Management System, Analysis of Algorithms, Advanced Data Structure, Supply Chain Management, Manufacturing Management, Operations Research, Applied Probability Methods.

Bachelor of Engineering in Ocean and Naval Engineering June 2012
Tianjin University, Tianjin, China
GPA: 3.31/4.00

EXPERIENCE

Application Engineer in Elutions September 2014 – Present

· Analyze electricity and gas consumption data from Morrisons and help them with energy saving.
· Manipulate data for over 500 sites and run regression model with Excel VBA scripts.

Intern in Phenetics.com May 2014 – August 2014

· Intern in a start-up to help the company with algorithm design and Java development.
· Get first hand experience on technologies like J2EE, Java Database Integration with JDBC, XML parsing with JDOM and so on.

APLL-ZHIQIN Technology Logistics July 2011 – August 2011

· Collected and analyzed data in delivery order.
· Monitored the transportation performance and calculated key performance indicator (KPI).

PROJECTS

Android Application LeetCode Cracker July 2014 – August 2014

· Developed a simple Android App to deliver my solutions for coding interview problems on LeetCode.
· Read my GitHub repository instantly and display information in the App with GitHub Java API.
· Already got more than 1000 downloads on Google Play.

Build a Website with Database Supported January 2014 – April 2014

· Built a StackExchange like forum for using by the university students, as part of a course on database.
· Designed the UI and implemented the front-end by utilizing HTML/CSS, JavaScript
· Designed the ER-model and database schema, utilized Oracle SQL and PHP to support the functionality

Multi-Criteria Decision Support System Based on VBA September 2013 – December 2013

· Designed a decision support system to evaluate projects for energy companies.
· Enabled different type of users to execute their respective functions. Ensured the security of the system, hid data among users and hid the VBA codes.
· Provided flexibility of the system in changing the number of users, evaluation criteria and its weight.

Programming Language Designing and Implementation September 2013 – December 2013

· Designed and implemented a small sequential programming language, which can manipulate images.
· The compiler was written in Java, it utilized ASM framework to dynamically generate Java bytecode.
· The compiler scan and parse the source code and generate code for Java Virtual Machine (JVM), with syntax checking and static type checking.

Case Study of Amazon.com's European Distribution Strategy January 2013 – May 2013

· Analyzed how Amazon made decisions about the expansion to Europe and built their European Distribution Network (EDN).
· Compared decentralized DCs to centralized DCs, considered sharing inventory strategy when use decentralized DCs.
· Analyzed other issues Amazon had to face when building EDN, such as DCs location, selling regulations, procurement strategy, volume discount and so on.

Simulation Study of Jacksonville Container Terminal of Crowley Maritime August 2012 – December 2012

· Collected data of terminal operations and layout, fitted data to stochastic distributions.

· Simulated and animated the current unload and load processes in ARENA.
· Ran scenarios which could potentially improve performance of the system and gave suggestions to the company.

Storage Space Allocation for Containers in Container Yards   Febuary 2012 – June 2012

· Designed a Genetic Algorithm for storage space allocation questions in container yard.
· Derived a good stacking strategy for containers to reduce extra moves.
· Implemented and Visualized the algorithm in Matlab.

AWARDS & CERTIFICATIONS

Six Sigma Green Belt, Institute of Industrial Engineers	January 2014 – Present
FE Industrial, NCEES	May 2014 – Present
Achievement Award for New Graduate Students, University of Florida	August 2012
First Prize, Contemporary Undergraduate Mathematical Contest in Modeling, CSIAM	October 2011
Honorable Mention, The Mathematical Contest in Modeling, COMAP	April 2011

SKILLS

Languages	Chinese Mandarin, English
Software & Tools	Eclipse, Git/GitHub, Arena, SPSS, Minitab, LaTeX, LINGO, AutoCAD, CPlex
Programming	Java, Bash, R, C/C++, Python, Matlab, VBA
Web & Database	HTML/CSS, JavaScript, PHP, SQL/MySQL