JIAQI(JACKIE) ZHU

San Francisco, CA ⋄ zhujiaqi@outlook.com ⋄ (352)-222-7518

OBJECTIVE

Seeking a full-time position or internship as a Data Analyst or Java Developer where I may use my engineering background and my interpersonal skills to further company growth and develop professionally.

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

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

EXPERIENCE

APLL-ZHIQIN Technology Logistics, Shanghai, China   July 2011 – August 2011

· Collected and analyzed data in delivery order.
· Monitored the transportation performance and calculated key performance indicator (KPI).
· Assisted the senior supervisor of Transportation Dept in routine duties.

PROJECTS

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

Implement Dijkstra Algorithm with Fibonacci Heap   March 2014

· Implemented Dijkstra algorithm in Java, using a simple data structure as well as Fibonacci heap.
· Developed the Fibonacci heap class, and compared the performance of F-Heap scheme to the simple scheme.

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, C/C++(Beginner), Python(Beginner), Matlab, VBA
Web & Database	HTML/CSS, JavaScript, PHP, SQL/MySQL