

LUTING HOU

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845 E Drachman St., Tucson, AZ 85719

EDUCATION

University of Arizona, Tucson, Arizona

May 2009

Master of Science in Management Information System, GPA: 3.8

Nanjing University of Aeronautics and Astronautics, Nanjing, China

Jun. 2007

Bachelor of Management in Information Management and Information Systems, GPA: 3.5

Purdue University Calumet, Hammond, Indiana

Dec. 2006

Exchange Program, Major: Electronic and Computer Engineering, GPA: 4.0

WORK EXPERIENCE

Schreiber Foods Inc., Information System Intern, Tempe AZ

Jun.-Aug.08

- ◆ Performed database programming and tuning in Oracle 10g and Access databases to improve operational efficiency
- ◆ Automated the production scheduling process by developing an Excel VBA program
- ◆ Developed a VB.Net application to monitor the production performance

University of Arizona, Department of Natural Resources, Research Assistant, Tucson AZ

Jan.-May 08

The project was to build a mash-up web application that collects data of the social and environmental performance of properties from more than 30 websites.

- ◆ Analyzed different types of website APIs including Google Map API
- ◆ Developed a JavaScript program to collect property performance data from Google Map

University of Arizona, Water Resources Research Center, Database Administrator, Tucson AZ

Jan.-May 08

- ◆ Programmed in SQL and generated reports from the Access database
- ◆ Maintained and updated the database

Purdue University Calumet, Water Institute, Student Research Position, Hammond IN

Oct.-Dec. 06

- ◆ Applied the Time-Series Analysis on the U.S. Consumer Price Index (CPI)
- ◆ Built a forecast model of the U.S. CPI using MATLAB.

PROJECT EXPERIENCE

Biosphere 2 Business Intelligence & Data Warehouse Solution, Student Analyst

Jan.-May 08

This solution helps Biosphere 2 to effectively and efficiently evaluate its business performance and received great feedbacks.

- ◆ Identified business objectives and Key Performance Indicators (KPIs)
- ◆ Analyzed the existing database and data structure
- ◆ Designed the data warehouse schema

Coupon & Discount Item Searching System

Jan.-May 08

The system gathers information of coupons and discount items from eBay, Amazon, Google and other data sources and provides not only an integrated view of those information but also historical trend analysis and shopping recommendations to the users. The system prototype can be accessed through this link: http://vangogh.ecom.arizona.edu/~clipper/demo/clipper_index.php

- ◆ Developed the web-based user interface in PHP and JavaScript
- ◆ Constructed the back-end database in MySQL, collected the data from the data sources, and performed the ETL process
- ◆ Designed the data mining algorithms for the recommendation function and translated the algorithm into PHP code

Oh!Baby Daycare System**Jan.-May 08**

The system is a social networking platform where parents and daycare centers could communicate with each other. The system prototype can be accessed through this link: <http://vangogh.ecom.arizona.edu/~ohbaby/>

- ◆ Developed the web-base system using Joomla!, a Content Management System, and JavaScript

University Medical Center (UMC) Hospital System Integration Solution, Student Analyst**Aug.-Dec. 07**

The solution integrated the separate information systems in the department of laboratory, radiology, and pharmacy of UMC by an Electronic Medical Record (EMR) system and shortened the time to retrieve a patient's record from a couple of hours to several minutes.

- ◆ Created innovatively the integration plan of using an EMR system to streamline the business processes
- ◆ Researched on off-shelf EMR systems and performed technical and financial analysis of each option

Arizona Historical Society Database Management System, Student Analyst**Aug.-Dec. 07**

The system consisting of an Oracle database and a web-based user interface reduced the time spent on retrieving information from 83 hours/month to 16 hours/month.

- ◆ Analyzed and improved the business processes
- ◆ Designed and implemented the database
- ◆ Developed the user interface in JSP

SKILLS & CERTIFICATES

- ◆ PROGRAMMING LANGUAGES: C, Java, VB.NET, Microsoft VBA, HTML, JavaScript, JSP, PHP
- ◆ SOFTWARE & DBMS: Oracle 10g, MySql, MATLAB, SAS, WEKA, Oracle Warehouse Builder, MicroStrategy
- ◆ CERTIFICATES: Receiving CNSSI No. 4016 Certificate (Risk Analyst) from the Committee on National Security Systems