

# Feng(Tracy) Gao

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## SUMMARY OF QUALIFICATION

- IT Project/Requirement Management: identify the set of processes used to create deliverables, define the organization that executes processes, apply time/quality/scope management skills in initiating, planning, and executing processes.
- Web/Front-end Development: proficiency with front-end/UI/web analysis and development, translating needs and requirements to user-friendly interface with well-designed layouts, features and interactive functionalities.
- Technology Skills: HTML, CSS, JavaScript, SQL Server, MySQL, jQuery, PHP, C, Java, Perl, UNIX, JSP, MS Office

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## EDUCATION

2012-Dec. 2013    **University of Pittsburgh**    Pittsburgh, PA  
Master of Science in Information Science, School of Information Science    GPA: 3.75/4.00  
Core courses: IS Analysis & Design, Web Technology, Database Management, Data Analytic, Decision Support System

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## PROFESSIONAL EXPERIENCE

May. 2013-Current    ***IT Project Management & Services, Front-end/Web Developer***    Pittsburgh, PA  
**Grant Street Group Inc., ITS Department and Tech Developer Team**

- Analyzed reviews and feedbacks from end users and clients, documented business case, scope statement, schedule worksheet, quality management plan in project lifecycle. Liaised business requirements and technical solutions.
- Built and optimized web applications using HTML, JavaScript, Perl MVC framework-Catalyst, DBIx, Template Toolkit. Implemented data visualization on client dashboard to generate customized report by Google API.
- Provided timely technical support and troubleshooting to business users on hardware, software and network.

2010-2011    ***Information System Analyst Intern***    Bengbu, Anhui  
**Bengbu Shili Computer System Integration Co., LTD**

- Designed high quality IT solutions, web-based systems improve the efficiency of business model, worked closely with clients and developers to translate critical data and remediations.
- Evaluated feasibility and productivity of systems, designed testing program to validate analysis results.

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## ACADEMIC PROJECTS AND RESEARCH EXPERIENCE

Apr. 2013    ***Predictive Engine and Web Interface---Decision Support System for Heart Failure Physicians***  
**Prognostic Bayesian Network Application to Predict HF Outcomes Using Actual Data from UPMC**

- Processed data by discretizing continuous variables, quantifying uncertainties, replacing missing and outlier values by EM algorithm; built interface processing data analysis and conclusion demonstration in HTML, Java Servlet, JSP.
- Tested different machine learning algorithms, created data models by Bayesian probabilistic network representing inference and relationships on predictive variables that produce the most accurate results.

Mar. 2013    ***Data Analysis contest on Kaggle-Titanic: Apply Tools of Machine Learning to Predict Survival***  
**Final Submission Accuracy: 0.82775, Ranking 21 on the Leaderboard of Contest**

- Acquainted with analytical procedures of processing large amounts of data: Data Storage by relational SQL database or data warehouses; Data Processing with uncertainty, variance, randomness, joint/conditional probability distribution; Testing by Cross-validation, confidence intervals; Data Analysis by probabilistic approaches and decision tree.

Dec. 2012    ***Database System and Web Implementation Designer and Developer***  
**Digital Sales Database and Web Interface for E-Commerce and On-line Transaction Processing**

- Implemented and documented MySQL database application and website in PHP that automates the functionalities of E-Commerce: transaction and inventory update, categorized products searching, customer/seller information storage.
- Optimized the system by adding database trigger, error-checking module for integrity constraints, data aggregation automatically summarizes Best Sellers in store, city and region based on transaction and inventory updating records.

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## VOLUNTEER EXPERIENCE AND HONORS

Aug. 2011    Outstanding Volunteer and Interpreter of the 2011 International Conference on Management Science and Intelligent (ICMSIC 2011), IEEE Operation Center, held in Bengbu, Anhui

Nov. 2010    First Prize Scholarship; First Prize for Comprehensive Quality