

Fei Li

Data Scientist at Google

Summary

- # Expert knowledge and hands-on experience of both quantitative and qualitative analysis, data mining, optimization and database operations, proficient in R, SQL, Hadoop, SAS, SAS Enterprise Miner, JMP, Matlab, Minitab, Stata, Dedoose, Access, Visio and Arena
 - # Solid knowledge and sufficient analytical experience in modeling and evaluating technology and information system in healthcare
 - # Skilled in business intelligence, resource planning and customer relationship management tools: SAP, IBM Cognos, Oracle Siebel, Agile and EnterpriseOne
 - # Programming skills in VBA and C
 - # Strong communication, presentation and project management skills
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Experience

Data Scientist at Google

January 2015 - Present

Data Scientist at Microsoft

January 2014 - January 2015 (1 year 1 month)

Research Assistant at University of Southern California, San Francisco Department of Aging and Adult Services

January 2013 - December 2013 (1 year)

- # Develop a logic model to evaluate the impact of Internet on users' lives and the effectiveness of broadband adoption programs in senior community centers.
- # Design a 50-item survey and structured interview protocol, conduct focus groups to collect 500+ users' perceptions on the program quality, short-term and long-term impacts on their lives.
- # Perform both quantitative and qualitative analysis tools to identify facilitators, barriers and provide recommendations.

Research Assistant, USC Health System Engineering Lab at University of Southern California

April 2012 - December 2013 (1 year 9 months)

- # Develop an analytical model to evaluate Electronic Health Record (EHR) system performance, implementation process, users' adoption, its work impact and the multi-layer path diagram indicating the complex relationships.
- # Design a 70-item survey instrument and conduct it by online distribution and phone interviews, reaching out to 1000+ physicians, with approximately 20% respond rate.

- # Transform data into actionable information using data mining and identify key success factors in system design and organizational strategy during implementation.
- # Perform statistical analysis to test the model empirically in order to be used as a diagnostic and predicative tool in health IT industry.

Intern, Business Analyst and Quality Engineer at Spirent Communications

June 2013 - August 2013 (3 months)

- # Design SQL and report modules in Cognos and Siebel upon business demands, which transforms data into business information.
- # Create a real-time dashboard with decision support tools using VBA, which consolidates data from diverse sources in entire quality department and could be updated automatically; it frees up to 60 hours of staff time monthly from manual data manipulation and improve quality accuracy by 15%.
- # Develop detailed and summary reports, tracking key performance indicators and utilized for future strategic decision making.

Research Assistant

September 2012 - December 2012 (4 months)

- # Designed electronic registry to facilitate risk-based intervention and to enable entire care team to provide seamless service, as a result, to improve patients' perinatal depression outcomes.
- # Conducted organizational EHR go-live readiness assessment, created swim-lane workflow of whole clinic and lead the workflow reengineering project.

Intern, Project Management at Kareo

June 2012 - August 2012 (3 months)

- # Analyzed market of current social healthcare products and identify key successful features.
- # Designed the features and prototyped all use cases of the beta version of a healthcare social network site to improve patient engagement.

Intern, Quality Improvement

June 2010 - July 2011 (1 year 2 months)

- # Assisted implementation of lean management system and standardization of the workflow, which improved process and freed 61 hours of staff time from belongings documentation.
- # Identified problems and miscommunication in current information system after observing more than 10 major departments, which decreased the number of operational mistakes by 15%.

Research Assistant at University of Southern California, RAND

January 2010 - May 2011 (1 year 5 months)

- # Developed reference taxonomy of eleven common clinical workflows, specifying up to four levels.
- # Indicated opportunities in the workflow where Clinical Decision Support (CDS) tools are useful and can be designed.

Education

University of Southern California

Doctor of Philosophy (Ph.D.), Industrial System Engineering, information system, 2008 - 2013

Tsinghua University

B.S, Automation Engineering, 2004 - 2008

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[Contact Fei on LinkedIn](#)