**Binyan ZHANG**

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**QUALIFICATIONS**

* Proficient in R, SQL, familiar with SAS, Python, Matlab, Tableau.
* Strong skills in Data Modeling, Machine Learning and Business Intelligence.
* Analytical thinker, quick learner, team-member and individual contributor.
* Bilingual (Chinese/English)

**EDUCATION**

University of Washington, Seattle, WA

***MS in Statistics***, June 2014.

Wuhan University, Wuhan, China

***BS in Applied Mathematics***, June 2012.

**EXPERIENCE**

***Analytic Scientist, Vesta Corporation, Portland, OR,*** Apr.2014-Present

* Analyzed large volume of transactional data to understand consumer behaviors identified patterns and   
  investigated anomalies with SAS and R.
* Developed predictive models to improve fraud detection, like scorecard, random forest, and etc.
* Developed alert systems based on device finger print information to control fraud attacks on time.

***Business Intelligence Analyst Intern, Zhaopin.com (Seek Ltd), Beijing, China,*** Jul.2013-Sep.2013

* Maintained CRM system, integrated business data and provided monthly reports using SQL sever 2012.
* Implemented Client Coverage Study and [Résumé](https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=9&cad=rja&ved=0CGYQFjAI&url=http%3A%2F%2Fen.wikipedia.org%2Fwiki%2FR%25C3%25A9sum%25C3%25A9&ei=aW1dUpygFe3xigLP84AI&usg=AFQjCNHeIQ1td_mezyno3yMmiaiLVv7Ajw&sig2=jguWnxU67MGhJXumpiXrdQ) Delivery Quantity Study using R and SPSS.
* Developed Team Task Visualization system, using Oracle Apex.

**PROJECTS**

***Alerting System Design, Vesta Corporation,*** April.2014-Dec.2014

* Analyzed transaction volume by various device fingerprint information, studied different statistical parameters, and set alert on a self-defined ratio proportion.
* Built models on different hash values to test hash value distribution, and sent alerts.

***Statistical Consultant, University of Washington,*** Jan.2014-Mar.2014

* Offered statistics and biostatistics consulting to real-world customers and researchers in multiple fields.
* Provided detailed report on testing whether 3 and 4-month-old infants can perform perception on pitches changing, by conducting simulations in R.

***Handwritten Digits Recognition, Course Project***, UW, Sep.2013-Dec.2013

* Classified MINST handwritten digits, by using support vector machine and random forest methods.
* Analyzed misclassification error and compared efficiency of each method.

***Breast Cancer Project, Course Project****,* UW, Sep.2012-Dec.2012

* Conducted feature selection on more than 100,000 potential patients’ data with 117 variables.
* Built predictive models to estimate the probability of having breast cancer.
* Compared models based on their sensitivity, specificity and ROC curve.

***Student Research Group Assistant, Study on numerical simulation of pump turbine***, Sep.2010-Sep. 2011

***Wuhan University，Information and Numerical Computing Lab***

* Collected data of model testing, conduct data cleaning and transformation for interpolation.
* Conducted linear regression analysis and first step prediction.

**AWARDS**

* Outstanding Graduate Student, Wuhan University May. 2012
* Honorable mention in the Interdisciplinary Contest in Modeling, COMAP Mar. 2012
* National Scholarship (twice), China Ministry of Education Nov.2010, Nov. 2009