Weining Hu

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Skills

Languages: PHP, R, SQL, Java, C++, C, Racket, VB, Python
Software: Matlab, RStudio, Eclipse, Xcode, Netbeans
Version Control: git

Technical Projects

Animanga: Web Application   **Jun 2015**

- Created a PHP web application that allows user to search for information about manga and anime
- Utilized MySQL to build a local database that stores
- Embedded SQL command in PHP code to allow users search with different need
- Designed user interface with Twitter Bootstrap, CSS, Html
- Worked in team of four that goes through a agile development cycle

BikeSharingDemand: Statistic Project   **Jan 2015-Apr 2015**

- Built a regression model in R using random forest method for predicting future bike sharing demand
- Improving the accuracy via feature engineering, data visualization that extracts the most important predictors
- Continually modifying code by integrating new data fitting method such as least square
- Github: https://github.com/weininghu1012/BikeSharingDemand

VanStreetFood: Web Application   **Sep 2014-Dec 2014**

- Created a Python web application that stores and displays the data of vendors in Vancouver and provide search and comment utilities for users
- Integrated the website with social network (Facebook) using Facebook API and users could either log into our website with Facebook account or website account
- Design user interface with Twitter Bootstrap, CSS, JavaScript
- Worked in team of four that goes through a agile development cycle

NextBus: Android Application   **Mar 2014-Apr 2014**

- Created an Android application that uses live bus information from to allow users create favorite list of selected bus stop and plot bus locations serving that stop
- Parsed data in JSON format from Translink API about bus stop, route
- Used Android SDK with Android emulator to allow users interact with the interface including click, zoom in/out
- Achieving all the targeted requirements through Junit tests and debugging process in a team of two.

Work Experience

Research Assistant at Department of Statistics at UBC   **Oct, 2014 – present**
- Research topic: Mixed effect model for complex data
- In practice, especially in longitudinal study, data are often complex and incomplete in a sense that there may be missing data, censoring data, dropout data, outliers and measuring errors. A mixed effect model

can be viewed as an extension of the corresponding classical regression model for cross sectional data by introducing random effects in the model and facilitates individual-specific inference.
- The work I do include: Using data visualization techniques to do some exploratory data analysis, conduct

Awards/Honors
UBC Faculty of Science Dean's Honor List (2015)
UBC Undergraduate Student Research Award (2015)
UBC Faculty of Science International Student Award (2014)
UBC Chancellors Scholar Designation (2013)
UBC Outstanding International Student Award (2013)
The National Scholarship of China (2012,)
Hubei University The First Prize Scholarship (2011)
Hubei University The Second Prize Scholarship (2012)
Hubei University Merit Student Award (2011,2012)

Education
University of British Columbia, Bsc in Computer Science combined with Statistics **2013-present**
Major GPA   3.95/4.33

Hubei University, BEcon in Finance(transfer out to UBC) **2011-2013**
Overall GPA   3.86/4.0

Hobbies
Painting, calligraphy and cycling

Volunteer
Undergraduate Representative (Volunteer) **Feb,2014-present**
UBC Focus on Women in Computer Science (FoCWS)