Wenting(Katrina) Zhu

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TECHNICAL SKILLS

- Programming Languages: Java, HTML5, CSS, Javascript, Python, C++ , R, Shell, Matlab
- Software Development: jQuery, REACT, Spring MVC, MyBatis, Restful API, Zookeeper, MySQL, Docker, Jetty
- Machine Learning: Regression, Support Vector Machine, Deep Learning(TensorFlow)

EDUCATION

University of California, Santa Cruz, Computer Science (Master of Science)   GPA: 3.7   Expected Dec 2018
- Courses included: Analysis of Algorithm, Database System, Data Mining, Computer Architecture, Data Visualization.

Beijing University of Posts and Telecom, Telecommunication Engineering (Bachelor of Science)   GPA: 3.2   July 2017
- Courses included: Data Structure and Algorithms, Java Programming, C++ Programming, Web Development Programming, Software Management, Introduction to Operating System, Microcomputer Principle, Machine Learning, Statistics.

Illinois Institute of Technology, Electronic Computer Engineering (Visiting Student)   GPA: 3.3   Jan 2016 – May 2016
- Courses included: Graph Theory, Computer Network, Coding Reliable Communications, Software Project Management.

WORK EXPERIENCE

Enterprise Architect Internship in Symantec, MountainView, CA   June 2018 – Now
  Technology: R, RStudio, tm, wordcloud2, syuzhet, SQL
- Reviewed architecture diagrams and optimized the architecture which increases system efficiency and security.
  - Built and maintain a ACT-Standard Table including standards of all the technologies used in Symantec.
  - Optimized the customer subscription system, which solves customer profile duplication problem.
- Worked on data science project presenting real time review scores of Symantec products to assist marketing strategy.
  - Extracted customer review data from popular websites like Amazon, Twitter and LinkedIn by using third party API.
  - Created desired word-cloud and extract emotion features from raw data using R data mining library.
  - Used Machine learning method to train the model and get the positive/negative scores of the review.
  - Implemented a dashboard showing real-time customer review scores of different products in Symantec.

Software Engineer intern at Demode, Inc. Suzhou, China   Jan 2016 – May 2016
  Technology: HTML5, CSS, Javascript, React, Java, Spring MVC, Restful API, Servlet/JSP, Jetty, Git
- Designed and implemented web interface for different screen sizes using React, which includes user sign-up, user login, visitor mode, product subscription, company inner query, etc.
- Applied Java Spring MVC as the back-end framework to realize multiple functions and merge APIs.
- Designed database structure to store the customer related information and took necessary data security protection.

Machine Learning Internship in Pattern Recognition Lab, Chinese Academy of Sciences   July 2016 – Dec 2016
  Technology: Matlab, LibSVM Toolkit, Digital feature extraction Toolkit, Caffe
- Designed a new framework of ensemble learning combining multiple SVM training and image features to predict the memorability of images, which, is a newly appeared computer graphics issue, by using multiple machine learning methods
- Programmed with MATLAB to complete the image feature extraction, including traditional feature SSIM, HOG, SIFT and train a CNN network on Caffe to get the upper level deep features

PROJECTS & RESEARCH

Data-Driven Discovery and Visualization of Iridium Flares   Sep 2017 – Jan 2018
  Technology: D3, Weka, HTML5, CSS, JS, jQuery, Java, Jsoup, git.
- Implemented a web Crawler using Java "Jsoup" Library to extract geographical and time data from website.
- Data analysis including cleaning dirty data and extracting statistical information using Weka.
- Designed visualization format and realize dynamic visualization by using jQuery and d3 javascript library.

Online Shopping System Backend Development   June 2017 – Sep 2017
  Technology: Oracle, MySQL, Javascript, Unit Tests.
- Created API to realize querying of customer coupons information and restructure the database system.
- Designed a dashboard showing all coupon expiration information, with functional buttons to send notifications.
- Implemented function sending the notification to customers of coupons expiration information and reminding them to use it.

Real-time Chatting System between PCs   May 2015 – July 2015
  Technology: JAVA (JOptionPane, Datagram Socket, Datagram Packet), Multi-thread Programming
- Created a graphical user interface for chatting with buttons controlling the process
- Accomplished voice and message real-time communication between two personal computers
- Calculated and revised the buffer size to optimize the transmission delay

PUBLICATION

Publications:
- Second author: Zhang J, Zhu W, Li B, et al. Image Copy Detection Based on Convolutional Neural Networks[M]// Pattern Recognition. Springer Singapore, 2016.
- First author: Is Combinational Strategy Better For Image Memorability Prediction. Rejected.