YIHAO FENG

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EDUCATION

Beihang University (BUAA), Beijng, China   Aug.2012 –Jul.2016 (Expected)
B.E. in Softerware Engineering
Rank: 4 / 134   Overall GPA:3.74 / 4 (Major GPA:3.85 / 4)

PROGRAMMING SKILLS

- Programming Languages: C/C++, Java, C#, PHP, Python, JavaScript,
- Programming Framework : Node.js, Django, Android, WPF
- Scientiific Software & System: Matlab, Mathematics, Weka, Hadoop, openSMILE, Torch, LightSide
- Database: MySQL, Microsoft SQL Server, MongoDB

EXPERIENCE & RESEARCH

ArticuLab, Carnegie Mellon University, USA   Jul.2015 – Sept.2015
Summer Research Intern   Adviser: Prof.Justine Cassell & Dr.Alexandros Papangelis

Research Topic: Modelling rapport in human or human-virtual peer conversation in a multimodal way
- Extracted visual and acoustic features by using openSMILE and CLM-Framework and synthesized them.
- Dealt with cleaning data, feature selection, imbalanced data problems and ran baseline with Weka.
- Applied linear-CRF to model rapport in a temporal way and achieved a result of 74% accuracy.
- Tried to capture inner correlation of rapport by using HCRF and achieved a result of 70% accuracy.

State Key Laboratory of Machine Perception, Peking University, China   Oct.2014 – Present
Undergraduate Research Assistant   Adviser: Prof.Guojie Song

Research Topic: Inferring social relations among users in mobile social network
- Proposed a method to extract geographical context meaning from LBS service based on **TF-IDF**.
- Ameliorated imbalanced problem by applying a distribution-sensitive learning parameter in graphs.
- Built a Triadic factor in the model by adopting the Structural Balance Theory in our mobile social network.
- Built a model called BTFG(Balanced Triadic Factor Graph) based on factor graph and bellowing discovery.

Mathematical Modeling & Algorithms Laboratory,University of Tsukuba, Japan   Jul.2014
Acadamic Visitor   Adviser: Dr.Yasuyuki Maeda

Research Topic: Basic research realization in Image Recognition
- Learned Basic Machine Learning method(SVM, PCA) to solve Image Recognition problem.
- Applied the PCA,SVD method to Recognize simple handwriting numbers by using Matlab.

Mobile & Big Data Department, Zhiquan.Inc, China   Feb.2015-Jun.2015
Software Engineer   Adviser: Dr.Yun Lu

Project:Zhiquan Android App Platform
- Built the IM chat and social relation part of the Android App.
- Implemented the initial version of User Recommendation System based on **User-Based** algorithms.

SELECTED CURRICULUM DESIGN

Project: *Online Hospital Booking System*   Oct.2014-Jan.2015
Project Manager & Back-end Developer   Adviser: Dr.Huobin Tan

- Designed the system architeture and set up the system development & operating enviorment.
- Designed and built the collections of nosql Database MongoDB.

- Realized and tested the back-end of the system using NodeJS.

Project: *Android Smartphone Assistant*   Mar.2014-Jun.2014

Android Developer   Adviser: Prof.Yunxiang Lu

- Analyzed project requirements with software engineering methodologies.
- Designed algorithms of trash cleaning and implemented the method of app locker.
- Developed the Android app with another student.

Project: *Android App of Car Pooling*   Mar.2014-Jun.2014

Android & Back-end Developer   Adviser: Sir.Jun Lin

- Designed the system with Agile methodology.
- Designed algorithms of how to find the suitable car for users.
- implemented the server of the system using LAMP.

HONORS AND AWARDS

- National Scholarship For Excellent Academic Performance (Top **2%**)   Sept.2013
- National Endeavor Scholarship (Top **5%**)   Sept.2014
- Excellent Student, Beihang University(Top **5%**, continued 2 years)   Sept.2012-Sept.2014
- *2nd Prize*, Mathematics Competitions of Beihang University   Jun.2013
- *1st Prize of Beijing*, China Undergraduate Mathematical Contest in Modeling   Sept.2014
- ***Meritorious*** *winner*, Mathematical Contest in Modeling (Top **13%**)   Apr.2015

MISCELLANEOUS

- **Area of Interests**:Probabilistic Graphical Models, Social Network, Multimodal, Data Mining
- **English**: *CET-4*: 609 / 720   *CET-6*: 584 / 720   *TOFEL*: 96 / 120
- **Personal Website**: http://lewiskit.github.io
- **Github**: https://github.com/lewisKit
- **LinkedIn**: https://cn.linkedin.com/in/yihao-feng-15937488