

Shengzhe Xu

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EDUCATION

BSc (Eng) in Telecommunication Engineering with Management

Sept. 2012-Jun. 2016

Beijing University of Posts and Telecommunications (BUPT)

Joint-degree with Queen Mary University of London (QMUL)

TOEFL: 104 (R:29, L:30, S:20, W:25)

PUBLICATION

Wei Jia; Qun Yang; Yan Wang; Shengzhe Xu; Wei Xiao. A Study of Personality Traits, Mental Health and Work Value between Young Adults from the Continental Plateau Regions and the Plain Geographical Areas [J]. PONE-D-15-47210.

COMPETITIONS AND AWARDS

The ACM International Collegiate Programming Contest (ACM-ICPC):

- ✧ **Silver** medalist for 2014 ACM-ICPC (Asia Regional Contest, Mudanjiang site)
- ✧ Bronze medalist for 2014 ACM-ICPC (Asia Regional Contest, Shanghai site)
- ✧ Bronze medalist for 2014 ACM-ICPC (Asia Regional Invitation Contest, Beijing site)

Google Code Jam 2014 Contest: Received **full marks** in Preliminaries C round and qualified for the semi-final.

Third Prize for the “Eighth Application and Innovation by Science and Technology Achievement Award of Students in Public Security Colleges”. The project was entitled “Public security file arrangement system based on the RFID and pattern recognition”.

University Awards: Received **Third Class Scholarship** of the BUPT university (twice). Received BUPT university award for **Outstanding Student Leaders** (once).

WORK EXPERIENCES

Google Beijing

2015.07-2015.10

Position: Software Engineer Intern

Host Supervisor: Software Engineer Yanchao Su

- ✧ Independently developed (with the help of my supervisor) a resource lint tool for Google input tools that could check resource errors and warnings. Used Python as the main coding language and algorithms with data structures as technologies. This tool can save a large amount of time of Google engineers who work on android development based on the Google input method framework.
- ✧ Built a native keyboard for an input method which was the main product our team were working on. The product will be launched in Q42015. I learnt a lot about Android development framework.
- ✧ Outside working hours, I also did the online Machine Learning courses within the company.

Tsinghua National Laboratory for information Science and technology, Tsinghua-Waterloo Joint Research Center for Internet Information Acquisition

2015.1 – 2015.6

Position: Intern Student

Tutor: Prof. Minlie Huang

- ✧ Was responsible for a Keyword Extraction project for medical science papers involving text mining, word segmentation, term normalization, term score, and the word cloud. Completed a JAVA GUI independently.
- ✧ Took part in a project of Sentiment Analysis and Opinion Mining for micro-blog and gained relevant algorithm knowledge.

Key Laboratory of Universal Wireless Communications, Ministry of Education**2013.05-2014.09**

Position: Intern Student

Mentor: Lecturer. Yuan Qi

- ✧ Learnt relevant knowledge and read papers: Bionics and Cognitive Radio, Biological Cluster, Robot Formation, Bionic Algorithm, etc.

RESEARCH PROJECTS

Detection of Outliers Using Machine Learning Methods**2015.11~2016.5**

Graduation Project

Position: Research Student

Instructor: Prof. Li Li

- ✧ Mastered machine learning knowledge and demonstrated very good coding ability.
- ✧ To study 'outlier detection' algorithm, which could find anomalies and unusual patterns hidden in a large data set. Such methods could have broad applications across multiple fields such as medical, financial, and network.
- ✧ To implement an outlier detection algorithm, analyze its performance and try to improve it.

Dual-core Electronic Organ, BUPT**2014.07**

Position: Team Leader

- ✧ Planned the entire project for the team consisting five students. The aim was to build an electronic organ that was based on basic circuit components (e.g. Resistance, single chip microcomputer, etc.) to realize the functions.
- ✧ Completed an important subtask for the project on the communication between the dual cores with encoders and decoders.
- ✧ Developed other specific components of the project, including circuit layout design, welding circuit by hand as well as single chip microcomputer programming. Utilized C as the main programming language.

IOS APPs, BUPT**2014.12**

Position: Own initiative

- ✧ Developed an APP on Geographic position detection with gyroscope sensor and processing as well as a data record, which could help telecommunications engineers measuring data when they maintain mobile telephone base stations.
- ✧ Designed a business management APP for Taobao based on 'AFNetworking' and Taobao API, which could help Taobao sellers managing goods and capital.
- ✧ Completed the programming in Swift.

Management Systems, BUPT**2013.07**

Position: Research Student

- ✧ Worked on a library management system and a supermarket management system. Both projects included hardware devices (i.e. Bar-code scanner) and wrote the programming in C.

ADDITIONAL INFORMATION

ACM-ICPC BUPT university team member (algorithm):

- ✧ Won a gold medal in 2013 BUPT Collegiate Programming Contest
- ✧ Served as a question setter and referee for 2014, 2015 BUPT Collegiate Programming Contest

Community Skills:

- ✧ Served as a voluntary guide in Chinese National Stadium Nest for both Chinese and overseas visitors.
- ✧ Served as moderator of the Chinese literature Section in the Editorial Department of Journal, College Student Union, and published several articles.
- ✧ Served as vice President of BUPT Microsoft Student Club, which have a relationship with the Microsoft company. Organized academic lectures as well as recreational activities.

Interests: Algorithm, Mathematics, Poetry, etc.