

Yuanshuo Lu

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OBJECTIVES	Seeking an full-time position in software engineering or mobile development (iOS)	
EDUCATION	University at Buffalo, SUNY , Buffalo, New York M.S., Computer Science and Engineering, Sept. 2013 - Dec. 2014 (expected) Beijing University of Posts and Telecommunications , Beijing, China B.S., Software Engineering, June 2012	
EXPERIENCE	Baidu, Inc. , Beijing iOS Developer, Mobile Development Department, February 2013 - August 2013 Appublisher, Inc. , Beijing iOS Developer, January 2012 - January 2013	
SKILLS	1 Programming Language: C/C++, Objective-C, Python, Javascript, Java 2 Platforms: Unix/Linux, Windows, Virtual Machine 3 Tools: GDB, Git, SVN, Matlab, Weka	
INDUSTRIAL PROJECTS	Baidu library HD 2.2.0 - 2.2.2 , Baidu, 2013 <ul style="list-style-type: none">Redesigned Baidu Library, the top rating cloud library app in App Store (China)Developed the <i>My Library</i> module, including user docs synchronization, frontend database management, and new UI featuresRedesigned the architecture of the app, and reimplemented most of the view controllers to make the code clearDeveloped new p2p doc transfer feature called <i>sound transfer</i>, utilizing sound coding to transfer doc ID and synchronizing user docs with the ID.Solved the memory leak problem when using UIWebView to display docsReference: https://itunes.apple.com/us/app/id483064532?ls=1&mt=8 Alumni Application for Peking University , Appublisher, 2012 <ul style="list-style-type: none">Developed news, gallery, activity, social network and settings modules of the appDesigned and implemented the download manager model and cache mechanismFinished the user behavior logging functionReference: https://itunes.apple.com/us/app/i-bei-da-ren/id515799568?mt=8 Utility Combo , Appublisher, 2012 <ul style="list-style-type: none">Developed the QR code scanner and codec controllerImplemented an image picker controller which can support selecting multiple images at once, and solved the performance issue when image files are too large	

- Reference: <https://itunes.apple.com/us/app/utilitycombo-wifi-backup-flash/id560457867?ls=1&mt=8>

Ad Aggregator, Appublisher, 2012

- Developed an Adwhirl style Ad Aggregator which can support ads switching configured by remote server, utilizing the dynamic language features of Objective-C
- Made the Ad Aggregator support full screen ads, which was not supported by mainstream Ad Aggregator

COURSE PROJECTS **IMS (IP Multimedia Subsystem) Messenger**, Beijing University of Posts and Telecommunications, 2012

- Led a laboratory team, including frontend and backend, to develop IMS services on different platforms, which is an experimental project in Communication Lab of the School of Software Engineering.
- Imported open source IMS Framework and developed an iOS Messenger based on SIP messages such as MESSAGE, REGISTER, SUBSCRIBE, PUBLISH and NOTIFY
- Implemented the functionalities of chatroom and friend subscribe
- Graded as the best Graduation Project of the School of Software Engineering (98 out of 100)

Gender Classification by Physiological Response to Stimuli, University at Buffalo, 2014

- Tried to find a machine learning approach to implement gender classification by physiological signal
- Wrote Python scripts to finish preprocess on original data
- Applied SVM to gender classification on volunteer's emotion labels
- Achieved certain accuracy of classifying gender by volunteer's emotion labels

Eye Movement Authentication, University at Buffalo, 2014

- Wrote Python scripts to calculate the distance between different individual's eye movement patterns, applying Dynamic Time Warping algorithm
- Tried to utilize Gaussian mixture and KL-divergence to calculate the distance between different eye movement patterns
- Achieved certain accuracy of recognizing individual by eye movement pattern