

Yiming Peng

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EDUCATION

University of Massachusetts, Amherst , Amherst, MA	Sept. 2013 - Dec. 2015
M.S. in Computer Engineering	
Wuhan University of Technology , Wuhan, China	Sept. 2009 - Jun. 2013
B.S. in Communication Engineering	
Top Tier Scholarship for Academic Achievement(Rank: 2/30)	

RELEVANT COURSES

Algorithms, Data Structure, Computer Networks, Operating System, Network Security, Natural Language Processing, Artificial Intelligence

EXPERTISE

Programming	Java(<i>Proficient</i>), Python, C; HTML, CSS; PHP, XML, JSON
Tools	Eclipse(ADT, PyDev); MAMP, MySQL, PhpStorm; Git; VirtualBox; Matlab
Operating System	Android, Linux(Ubuntu), OS X, Windows

PROJECT EXPERIENCE

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| Android Project: RunTracker | Apr. 2015 - Jun. 2015 |
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- Developed an Android application that works with a device's GPS to record and display the user's travels (Link: <https://github.com/Eamon4213/RunTracker>)
 - Built up local databases to store data of user's running activities and their locations using SQLite
 - Utilized Google Map API to display a map showing the track of the user's running activities
 - Provided a smooth user experience by using Loader API to keep database work on a background thread
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| Natural Language Processing Project: NER Tagging for Twitter | Sept. 2014 - Dec. 2014 |
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- Constructed a NER(Name Entity Recognition) tagger for Twitter to recognize spans of text that correspond to a name in tokenized tweets
 - Utilized the CRFSuite software package and the IOB notation to do model training and label predicting on the corpus
 - Developed a feature extractor in Python to extract the characteristics of words, including lexical, character affix, shape features, positional offset versions
 - Optimized **F-score**(a statistics method to evaluate the accuracy of label predictions) from 0.036 to **0.475** for the initial labeled corpus, **0.362** for the unlabeled tweets on Kaggle.com (Link: <https://www.kaggle.com/eamonx/results>)
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| Android Project: Opportunistic Networking in Emergency Situations | Dec. 2013 - May. 2014 |
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- Worked as Android Developer at 5G Mobile Evolution Lab* *Amherst, MA*
- Developed an Android application that supports multi-hop peer-to-peer network connections without any intermediate access points or existing infrastructures
 - Utilized Bluetooth API and MAC address to implement group text chatting among paired phones
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| Network Security Project: Security in Emergency Situations | Sept. 2013 - Dec. 2013 |
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- Designed a client-server security system for emergency situations that offers access control, user authority allocation, communication encryption (Link: <https://github.com/Eamon4213/SecureRescue>)
 - Developed the client app in Android that supports account registration and login, allows users to post POIs(Points of Interest) to server. When server sends a message, the client app is able to receive it, display it and notify the user
 - Implemented Kerberos Algorithm in the data communication and used MD5 Salt Encryption in the user account protection
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| Android Project: Newsstand | Jun. 2011 - Aug. 2011 |
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- Developed an Android application that users can browse news items and visit their original web pages for details
 - Built up a server and MySQL database to store data of the news title, description, and original web page URL on MAMP
 - Implemented the connection and the data transmission between server and the client app by using PHP and JSON