

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, C++; HTML, CSS; PHP, XML, JSON
Tools	Eclipse(ADT, PyDev); MAMP, PhpStorm; MySQL, SQLite; Git; VirtualBox; gdb; Matlab
Operating System	Android, Linux(Ubuntu), OS X, Windows

PROJECT EXPERIENCE

Android Project: RunTracker <i>Link: https://github.com/Eamon4213/RunTracker</i> <ul style="list-style-type: none">· Developed an Android application that works with a device's GPS to record and display the user's travels· 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	Apr. 2015 - Jun. 2015
Natural Language Processing Project: NER Tagging for Twitter <i>Link: https://www.kaggle.com/eamonx/results</i> <ul style="list-style-type: none">· 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	Sept. 2014 - Dec. 2014
Android Project: Opportunistic Networking in Emergency Situations <i>Worked as Android Developer at 5G Mobile Evolution Lab</i> <ul style="list-style-type: none">· 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	Dec. 2013 - May. 2014 Amherst, MA
Network Security Project: Security in Emergency Situations <i>Link: https://github.com/Eamon4213/SecureRescue</i> <ul style="list-style-type: none">· Designed a client-server security system for emergency situations that offers access control, user authority allocation, communication encryption· 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	Sept. 2013 - Dec. 2013
Android Project: Newsstand <ul style="list-style-type: none">· 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	Jun. 2011 - Aug. 2011