

YIMING PENG

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PROFILE

Motivated computer engineering student with broad skills and experiences in software development. Strong understanding and experience with object-oriented programming and system design. Proficient in data structures and algorithms.

EDUCATION

University of Massachusetts, Amherst , Amherst, MA	Sept. 2013 - Dec. 2015(Expected)
M.S. in Computer Engineering	Overall GPA: Available upon request
Relevant Courses: Algorithms, Computer Networks, System Software Design	
Wuhan University of Technology , Wuhan, China	Sept. 2009 - Jun. 2013
B.S. in Communication Engineering	Overall GPA: Available upon request
Relevant Courses: Data Structure, Fundamentals of Computer Programming	

EXPERTISE

Languages	Proficient in Java Experienced with Python, HTML, CSS, XML, C, C++
Tools	Eclipse(ADT, PyDev), Android Studio, GitHub, VirtualBox, Matlab
Operating Systems	Android, Linux(Ubuntu)

WORK EXPERIENCE

5G Mobile Evolution Lab <i>Independent Study</i>	Dec. 2013 - May. 2014 <i>Amherst, MA</i>
<ul style="list-style-type: none">Resolved the issue of the communication difficulty in emergency situations without Internet using Bluetooth.Developed an Android application that enables the emergency responders to establish an ad hoc network among mobile devices of the emergency system.	
Luculent Software Co., Ltd. <i>Internship</i>	Jun. 2011 - Aug. 2011 <i>Nanjing, China</i>
<ul style="list-style-type: none">Resolved the issue of the devices deploy for the monitoring on the combustible poisonous gas in urban subterranean room.Implemented a web crawler in Java to collect the gas leak reports data of the last decade in Nanjing city.	

PROJECT EXPERIENCE

RunTracker	Apr. 2015 - Jun. 2015
<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.Implemented local databases to store data about runs and their locations using SQLite.Utilized Loader API to keep database work on a background thread for a smooth user experience.Utilized Google Map API to display a map showing the track of the user's run and markers of the start and end.	
NER Tagging for Twitter <i>Course Project: CS 585 Natural Language Processing</i>	Sept. 2014 - Dec. 2014 <i>UMass Amherst</i>
<ul style="list-style-type: none">Constructed an NER(Name Entity Recognition) tagger for Twitter to recognize spans of text that correspond to a name in tokenized tweets.Implemented a feature extractor in Python to extract the characteristics of words, including lexical, character affix, shape features, and positional offset versions.Utilized the CRFsuite software package and the IOB notation to train a model on the training corpus and make predictions on the development corpus.Designed a Python script to evaluate the predicted tags against the gold standard tags of the development corpus based on F-score.Optimized F-score from 0.036 to 0.475 for the previous development corpus, 0.362 for the unlabeled new tweets on Kaggle.com.	
Security in Emergency Situations <i>Course Project: ECE 644 Trustworthy Computing</i>	Sept. 2013 - Dec. 2013 <i>UMass Amherst</i>
<ul style="list-style-type: none">Developed a set of mechanisms to protect the emergency response system, including access control, user authority allocation, communication encryption.Designed the user interface of the client app on Android platform.Implemented the functionality of the client app, including POIs(Points of Interest) post and display, Kerberos protocol in transmit process, MD5 Salt algorithm in login system.	