

# YIMING PENG

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## PROFILE

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

## EDUCATION

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

## EXPERTISE

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

## WORK EXPERIENCE

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

## PROJECT EXPERIENCE

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