YIMING PENG

279 Amherst Road, Apt 9 ◇ Sunderland, MA 01375
(413) · 801 · 8072 ◇ eamonpeng91@gmail.com

PROFILE

Motivated computer engineering student with broad skills, experiences and enthusiasm in software development. Proficient in data structures and algorithms. Familiar with mobile development. Love to learn, fast to learn.

EDUCATION

University of Massachusetts, Amherst, Amherst, MA — Sept. 2013 - Dec. 2015
M.S. in **Computer Engineering** — Overall GPA: Available upon request
Relevant Courses: Algorithms, Trustworthy Computing, 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: Signal and System, Information Theory and Coding, Data Structure

EXPERTISE

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

PROJECT EXPERIENCE

RunTracker — Apr. 2015 - Jun. 2015

- 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 — Sept. 2014 - Dec. 2014
Course Project: CS 585 Natural Language Processing — *UMass Amherst*

- 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 — Sept. 2013 - Dec. 2013
Course Project: ECE 644 Trustworthy Computing — *UMass Amherst*

- 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.

Data Acquisition for Monitors Deploy Planning — Jun. 2011 - Aug. 2011
Internship — *Luculent Software Co., Ltd., Nanjing, China*

- 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.

PERSONAL LINKS

Personal Website	http://yimingpeng.com/
GitHub	https://github.com/Eamon4213