YIMING PENG

279 Amherst Road, Apt 9 \diamond Sunderland, MA 01375 $(413) \cdot 801 \cdot 8072 \diamond$ eamonpeng91@gmail.com

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, fast to learn.

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: Signal and System, Information Theory and Coding, Mobile Communication

EXPERTISE

Proficient in Java, Python, HTML Languages

Experienced with JavaScript, CSS, XML, C, C++

Tools Eclipse(ADT, PyDev), Android Studio, GitHub, VirtualBox, Matlab

Operating Systems Android, Linux(Ubuntu)

RELATED 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

 $UMass\ Amherst$

- \cdot 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