**Peng Hou**

Houpeng728@gmail.com

(978) 761-3446

10 Drew Pl, Woburn, MA 01801

**SKILLS**

C/C++, Java, Python, SQL, Web development, Android development

Linux/Unix, Mac OS, Windows

**EDUCATION**

**University of Massachusetts Lowell Lowell, MA 2014**

Computer Science, M.S.

Advisor: Prof. Yu Cao

**Inner Mongolia Normal University Hohhot, China 2010**

Computer Science, B.S.

**RELEVANT EXPERIENCE**

**Software Engineer UFA Inc., Burlington, MA, 03/2015 – Present**

Air Traffic Control (ATC) Simulation System and Voice Recognition: Software Development/Maintenance

* Implement 64bit Linux platform porting from current 32bit application
* Cloud-based application portal development
* Web application development

Skills: C/C++, Java, JavaScript, Python, Linux/Unix

**Teaching Assistant University of Massachusetts Lowell, 09/2014 – 12/2014**

* 91.301 Organization of Programming Language
* 91.513 Internet Web System

Skills: LISP, Web Development

**Research Assistant University of Massachusetts Lowell, 01/2014 – 09/2014**

Computational Sensing Research, Machine Learning and Multimedia Computing:

* Human activity monitoring research project: Fall Detection (Android app)
* NSF Biomedical Informatics summer research group: <http://csr.cs.uml.edu/about/>
* Deep Learning-based Video Analytics research project: Video Violence Detection (Web-based demo)

Skills: Java, C/C++, Python, Android, Web Development, LAMP, Yii framework, MySQL, LibSVM, Weka, AWS, Linux, Machine learning algorithm

**Network Engineer China Unicom, China 08/2010** **– 08/2012**

IP network technology support: high-end routers and switches, network data transfer, network implementation, network cutover and daily troubleshooting.

**Internship Huizhi Inc., China, 05/2010 – 08/2010**

**PUBLICATIONS**

**A New Deep Learning-based Food Recognition System for Dietary Assessment on An Edge Computing Service Infrastructure**

Chang Liu, Yu Cao, Yan Luo, Guanling Chen, Vinod Vokkarane, Yunsheng Ma, Songqing Chen, Peng Hou

*IEEE Transactions on Services Computing (TSC), 2017*

**FAST: A Fog Computing Assisted Distributed Analytics System to Monitor Fall for Stroke Mitigation**

Y. Cao, S. Chen, P. Hou, and D. Buhl-Brown.

*10th IEEE International Conference on Networking, Architecture, and Storage (NAS 2015) (****Best Paper Award****), Boston, MA, U.S.A, 2015*

**Distributed Analytics and Edge Intelligence: Pervasive Health Monitoring at the Era of Fog Computing**

Y Cao, P Hou, D Brown, J Wang, S Chen.

*Mobile Big Data 2015 workshop, in conjunction with Mobihoc 2015, Hangzhou, China, 2015*

**PERSONAL INTERESTS**

Guitar, Accordion, Music Production, Innovative Technology