

Peng Hou

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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
Computer Science, M.S.
Advisor: Prof. Yu Cao
Inner Mongolia Normal University
Computer Science, B.S.

Lowell, MA 2014

Hohhot, China 2010

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