□ 952-297-6289 | ➡ imsure95@gmail.com | 🏕 imsure.github.io | 🖸 imsure | 🛅 shuo-yang-12ab7047

FDUCATION_

University of Arizona Tucson, Arizona USA

M.S. IN COMPUTER SCIENCE, GPA: 3.18

Aug. 2014 - May. 2017

University of St. Thomas

St. Paul, Minnesota USA

M.S. IN SOFTWARE ENGINEERING, GPA: 3.8

Aug. 2011 - May. 2014

Harbin Institute of Technology
B.E. IN ELECTRICAL ENGINEERING

Harbin, Heilongjiang China

Aug. 2004 - May. 2008

Experience _____

Metropia, Inc.Tucson, Arizona USA

SOFTWARE ENGINEER Dec. 2017 - Present

- · Build robust, lasting, and scalable web service based software products which support Metropia's routing, prediction, and payment modules.
- Perform code reviews and ensure exceptional code quality.
- Evaluate the technical tradeoffs of every decision.

University of Arizona Tucson, Arizona USA

RESEARCH ASSISTANT FOR ANTARES PROJECT

Aug. 2014 - Aug. 2015, Aug. 2016 - Mar. 2017

- · Designed and implemented Python API for astronomical alert data manipulation, using MySQL as DB backend.
- · Built the provenance data view system with Django and MySQL.
- Worked on various components of ANTARES system, including data injection, alert simulator and alert packet format specification.
- Managed the dedicated CentOS cluster; designed and built the autoconfiguration and bootstrap system using Puppet and Vagrant.

University of Arizona Tucson, Arizona USA

TEACHING ASSISTANT FOR CS460: DATABASE SYSTEMS

Fall 2015 & Spring 2016

- Held office hours; graded programming and written assignments; prepared solutions for written assignments.
- Designed and evaluated final course project "Database-driven Web Application" using Oracle, Tomcat and JSP.

University of St. Thomas

St. Paul, Minnesota USA

STUDENT RESEARCHER FOR NEURAL MODELING IN HADOOP PROJECT

Aug. 2013 - May. 2014

Re-implemented the model with Apache Giraph (made use of vertex-centric in memory computation), improved performance by 60% compared to the MapReduce implementation.

· Developed a new design pattern for graph algorithms in MapReduce and implemented a large scale neural network model in MapReduce.

Danfoss Power Solutions

Plymouth, Minnesota USA

SOFTWARE ENGINEER INTERN

June. 2012 - May. 2013

· Migrated the legacy software (written in C) to the new hardware platform with other team members and conducted unit testing.

- Improved overall software quality using static code analyzer FlexeLint, identified and corrected several vulnerabilities existed in the legacy code.
- · Built a tool (in Python) for summarizing, indexing and querying large volume of warning messages produced by FlexeLint.

Beijing Farsight Technology and Information

Beijing, China

EMBEDDED SOFTWARE ENGINEER & TRAINING ASSISTANT

July. 2009 - July. 2011

- Developed Linux device drivers and applications (in C) for various ARM platforms (ARM 9, 11 & Cortex-A8).
- Prepared training materials and instructed trainees in their lab sessions and final design project.

Platomix Technologies. (Start-up company)

Beijing, China

SOFTWARE ENGINEER

Feb. 2009 - July. 2009

- Joined the team that built the initial prototype for Samsung's Remote Test Lab (RTL).
- Developed a multi-threaded program (in C++) for RTL device (Linux smartphone) to handle requests from RTL clients.

Publication ___

Yang S, Spielman ND, Jackson JC, Rubin BS. Large-scale neural modeling in MapReduce and Giraph. In IEEE International Conference on Electro Information Technology. IEEE Computer Society. 2014. p. 556-561. 6871824. Available from, DOI: 10.1109/EIT.2014.6871824

Skills_____

LanguagesC/C++, Python, Java, SQL, Shell, HTML, R, MIPS AssemblyData/DatabasesMySQL, SQLite, Oracle, MongoDB, HBase, Hive, Pig

Operating Systems Linux/Unix, Mac OSX

Platforms/Libraries Hadoop, Giraph, Pthreads, MPI, Django

Tools LaTeX, Emacs, Eclipse, Git, Vagrant, Puppet, Chef, Jupyter