Shuo Yang

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EDUCATION

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   *Harbin, Heilongjiang China*
B.E. IN ELECTRICAL ENGINEERING   *Aug. 2004 - May. 2008*

SKILLS

Languages	Python, C/C++, Java, SQL, Bash
Data/Databases	MySQL, PostgreSQL, Redis, SQLite, Hive, Pig
Platforms/Libraries	Django, Django Rest Framework, Celery, Hadoop, Giraph, Pthreads, MPI
Tools	Git, LaTeX, Emacs, IntelliJ, Vagrant, Puppet, Chef, Jupyter Notebook

EXPERIENCE

Metropia, Inc.   *Tucson, Arizona USA*
SOFTWARE ENGINEER   *Dec. 2017 - Present*
- Build the backend system that provides end users with real time and predictive multi-modal travel options using Python 3, Django, Django Rest Framework and PostgreSQL.
- Work closely with data science team to transform research prototypes into production level code.
- Perform code review with peers to ensure exceptional code quality.

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 using 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*
- Created solutions for programming and written assignments.
- Created tutorials and demo for the final course project "Database-driven Web Application" using Oracle, Tomcat and JSP, mentored project teams.

University of St. Thomas   *St. Paul, Minnesota USA*
RESEARCH ASSISTANT FOR NEURAL MODELING IN HADOOP PROJECT   *Aug. 2013 - May. 2014*
- Developed a new design pattern for graph algorithms in MapReduce and implemented a large scale neural network model in MapReduce.
- Re-implemented the model with a vertex-centric approach using Apache Giraph and resulted in 60% performance improvement.
- Published (Link to paper) and presented (link to slides) a paper as first author in an IEEE regional conference.

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.

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.