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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

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, Pandas

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

• Work closely with data science team to transform research prototypes into production level code.

- Design and build the scalable backend system that provides end users with real time and predictive multi-modal travel options via web API.
  Main stack: Python 3, PostgreSQL, Sklearn, Django, Django Rest Framework, Redis, Celery and Pytest.
- · Scale out existing systems to handle high loads.
- Deploy and monitor backend services on AWS.

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

Aug. 2013 - May. 2014

RESEARCH ASSISTANT FOR NEURAL MODELING IN HADOOP PROJECT

- 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

SOFTWARE ENGINEER

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

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.

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