

WENZHAO LIU

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GitHub: <https://github.com/zmaxlwz>

SUMMARY:

Self-starter, problem solver, researcher, team player, written and verbal communicator. Detail oriented, quick learner, Mandarin language speaker with organizational skills, seeking opportunity to work in the area of software programming. OPT starts from 02/17.

EDUCATION:

UNIVERSITY OF MASSACHUSETTS AMHERST

Master of Science, Feb 2017, GPA 3.94/4.0

Major: Computer Science Area of Concentration: Software Systems

TECHNICAL SKILLS:

JAVA, Python, C, C++, SQL, MATLAB, HTML, CSS, JavaScript, jQuery, D3, PHP, Linux, PostgreSQL, MongoDB, Spark, Kafka, Zookeeper, Tableau, NumPy, Git, AWS EC2, Pig Latin, MapReduce, Eclipse, JSON, XML, Ant, Machine Learning, System Building

RELEVANT COURSES:

Database Design and Implementation	Advanced Algorithms	Computer Networks
Distributed and Operating Systems	Machine Learning	Artificial Intelligence

EXPERIENCE:

Philips Research North America Cambridge, MA

Software Development Intern 05/16 – 08/16

- Implemented the lighting data stream processing pipeline using Kafka, Spark Streaming
- Proposed and improved the solution to the fault light group detection problem
- Finished all coding, testing, documentation, deployment in AWS, and demo the system

UNIVERSITY OF MASSACHUSETTS Amherst, MA

Teaching Assistant (Computer Science Dept.) 01/16 – 01/17

- Led discussion sessions for 100+ students, graded homework and programming projects
- Answered student's questions with regards to algorithms and programming projects

UNIVERSITY OF MASSACHUSETTS Amherst, MA

Research Assistant (Computer Science Dept. Database lab.) 09/13 – 12/15

- Developed the web back and front end features using PHP, JAVA, JavaScript, jQuery and D3
- Extracted 180 million astronomy data records, stored and maintained in PostgreSQL
- Implemented sampling algorithms with SQL, performed large sets of experiments to evaluate

TEBON Securities Shanghai, China

Financial Software Engineer (Quantitative Investment Dept.) 12/10 – 06/12

- Developed and tested trading models using MATLAB toolboxes, including data modeling
- Analyzed modeling results with market related metrics, carried a model into real trading

PROJECT EXPERIENCE:

UNIVERSITY OF MASSACHUSETTS Amherst, MA

- Evaluated various classification methods, like Logistic Regression, Ensembles and Neural Networks, using Python scikit-learn package on a real-world dataset from Kaggle Competition
- Implemented an IoT distributed system with socket communications, clock synchronizations, multi-tier architectures, fault tolerance and consistency features

PUBLICATION:

AIDE: an automatic user navigation system for interactive data exploration (VLDB 2015)

Y. Diao, K. Dimitriadou, Z. Li, **W. Liu**, O. Papaemmanouil, K. Peng, L. Peng

Web Application Demo Link: goo.gl/1xP97T

ACTIVITIES AND INTERESTS:

Basic SCUBA Diving Certificate, Zumba, Gym Exercise, Reading, Swimming, Traveling