

THOMAS LIU

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EDUCATION

University of Illinois at Urbana-Champaign
B.S. Computer Science, M.S. Computer Science

May 2018
GPA: 3.67

Courses:

- ▷ Applied Machine Learning (CS 498DF)
- ▷ Data Driven Design (CS 598RK)
- ▷ Data Mining (CS 412)
- ▷ Introduction to AI (CS 440)
- ▷ Natural Language Processing (CS 447)
- ▷ Probability in CS (CS 498)
- ▷ Algorithms and Models of Computation (CS 374)
- ▷ Operating System Design (CS 423)
- ▷ Computer Security I (CS 461)
- ▷ Computer Organization (CS 433)
- ▷ Languages and Compilers (CS 421)
- ▷ Compiler Construction (CS 426)
- ▷ User Interface Design (CS 465)

SKILLS

LANGUAGES: Python, JavaScript (ES7), C#, Java, Julia, C, C++, Lisp, \LaTeX
OTHER: Git, React, Flask, Jest, Redis, Docker, Linux, Windows

EXPERIENCE

Microsoft Summer 2017
Software Engineering Intern
Seattle, Washington
SWE intern on the Bing ObjectStore team working on the Deep Learning Inference Service (DLIS). Profiled performance differences between DLIS TensorFlow models running on Windows and on Linux. Designed and developed a new pipeline for creating Docker images to be served on DLIS Linux machines.

Microsoft Summer 2016
Software Engineering Intern
Seattle, Washington
SWE intern on the Bing IndexServe team. Developed a prototype integrating Docker, Apache Yarn, and Windows Server 2016 to facilitate multitenancy on Bing IndexServe servers. Created web app for monitoring the Docker containers.

Yahoo Summer 2015
Software Engineering Intern
Sunnyvale, California
SWE intern on the Yahoo Ads team working on Yahoo Ad Manager Plus (YAM+), the Yahoo Ads bidding platform. Developed a system for syncing the object caches of YAM+ servers. Ported YAM+ to Java 8 and from Tomcat to Jetty.

Relativity Summer 2014
Software Engineering Intern
Chicago, Illinois
SWE intern on the Relativity analytics team. Designed and implemented a plugin framework for sampling legal documents in Relativity, an eDiscovery software for classifying documents.

University of Illinois Spring 15 – present
Teaching Assistant
Champaign, Illinois
Graduate and undergraduate TA for CS 233 Computer Architecture. Developed for the autograder and other course staff projects. Taught discussion sections and developed curriculum. Wrote handouts and held office hours.

SELECTED PROJECTS

q.cs 2016 – present
React, Flask, redis cs233-queue.studentspace.cs.illinois.edu
Developed a web app queue for students to submit questions during office hours so that TAs can help students while they work. Mobile friendly, material design frontend in React. Full test coverage with jest. REST API backend in Flask with a redis database.

Human or Robot? 2015
Python, Julia, WEKA
Implemented a classifier with an Adaboosted stochastic gradient descent SVM for the “Human or Robot?” Kaggle competition. Obtained a 0.85 AUC score.

Piazza Question Classifier 2017 – present
React, Flask, redis piazza.tfliu.com
Created a web app for crowdsourcing training data on classifying Piazza questions as good or bad. Researched the implications of gamifying Piazza response time.