ERHAN HU

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EDUCATION

Computer and Information Science, M.S.E.   Expected May 2016
School of Engineering and Applied Science   **Philadelphia, PA**
University of Pennsylvania
GPA: 3.39/4

Computer Science, Bachelor of Science   Earned December 2013
College of Science and Engineering   **Minneapolis, MN**
University of Minnesota, Twin Cities
GPA: 3.805/4 (Distinction Honor)

SKILLS

Actively Using C, Ruby on Rails, Python (Django), Java, MATLAB
Familiar SQL, C++, C# (.NET), Scala, HTML/CSS, JavaScript, Objective-C (iOS)

COURSE HIGHLIGHTS

Distributed Systems, Algorithms and Data Structures, Machine Learning, Computer Vision, Database Management Systems, Web Programming, Object-Oriented Design, Operating Systems (UNIX system Programming), Scientific Computing, Numerical Linear Algebra, Theory of Computation, Probability and Statistics, Mathematical Modeling, Abstract Algebra, Mathematical Finance, Linear Programming.

PROJECTS

Distributed Systems: Multithreaded Group Chat Server (C++)   Spring 2016
- ☐ Developed a multi-client chat server from scratch on POSIX UDP socket interface.
- ☐ Employed distributed algorithms for sequencer election, client liveness detection, consistency of message ordering and packet loss recovery.

Web Programming: Local Fun Places Explorer (Ruby on Rails) Spring 2015
- ☐ Developed a web application to help users share hobbies and availabilities, and find partners to hang out.
- ☐ Practiced MVC, cloud hosting (AWS EC2) and unit testing.

Database and Information System: Yelp Scheduler (Python)   Spring 2015
- ☐ Wrote a Django application to find restaurants based on user locations, ratings and styles. Used MySQL and hosted on AWS RDS.
- ☐ Practiced SQL query optimization, parallel programming and API integration (Google Map, Yelp and Bing Search).

Machine Learning: Real Estate Price Estimation   Fall 2014
- ☐ Developed MATLAB programs to predict prices based on wording of ads.
- ☐ Applied Naïve Bayes, regularized regressions, decision trees and SVM algorithms.
- ☐ Led the team to beat the first baseline.

RESEARCH & WORK

Undergraduate Research Assistant   February 2013 - May 2013
Department of Computer Science and Engineering, University of Minnesota
- ☐ Wrote C to embed Fortran into MATLAB programs via LAPACK.

Undergraduate Teaching Assistant   September 2012 - December 2012
Math 4242, *School of Mathematics, University of Minnesota*
- ☐ Graded weekly homework and quizzes for a senior linear algebra class.