

Lei Ding

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Professional Summary

Over 4 year software study and experience with solid background in software tool development, web application and machine learning. Led several technical projects with good cooperation ability in team work. Always self-motivated to learn new technologies and work on challenging projects.

Education

University of California, Los Angeles Los Angeles, California Est. Mar 2017
M.S. in Electrical Engineering, Current GPA: 3.5

Shanghai Jiao Tong University (SJTU) Shanghai, China Jul. 2015
B.S. in Information Engineering, GPA: 3.6

Selected Courses

Web Applications, Parallel and Distributed Programming, Operating Systems, Social Network Analysis, Machine Learning Algorithms, Data Structures, Computer Networks, Embedded Systems, Image Processing, Game Theory

Experience

Software Engineer Intern Amazon Jun. 2016-Sept. 2016

- Built a data management tool to extract time series inventory data from DynamoDB and S3.
- Designed data schema for storage in DynamoDB and optimized query and write performance with limited read and write capacity.
- Created website for time series analysis using Spring MVC with tools like D3, JQuery, Bootstrap.

Undergraduate Research Assistant SJTU Sept. 2013-Jun. 2015

- Co-built a RSS based indoor localization system with improved accuracy and co-possess a patent.
- Co-led a real-time traffic information sharing system with high (93%) vehicle prediction accuracy.
- Designed and built a testing tool for Ericsson's SDN Dallas system.

Selected Projects

Rating Prediction of IMDb Movies Based on Social Network Analysis and Machine Learning Algorithm UCLA Mar. 2016-May. 2016

- Constructed IMDb movie and actor networks and did analysis with PageRank and FastGreedy.
- Extracted features from actors' pageranks and movies' community properties.
- Trained a regression model to predict movies' ratings with Gradient Boosting, Random Forest.

Large Scale Community Detection Based on Spark UCLA Mar. 2016-May. 2016

- Studied and Implemented Louvain distributed community detection algorithm using Scala.
- Managed a EMR cluster for Spark as the distributed computing platform.
- Tested detection performance (high modularity 0.43) with Twitter user network data .

Website Development for Ebay Auction Search UCLA Jan. 2016-Mar. 2016

- Designed relational auction data schema for storage in MySQL.
- Implemented search functions with Lucene and built a website using Axis2 and Tomcat.
- Added Google Suggest and Map service with AJAX and a secure transaction service with SSL.

Skills

- **Language:** Java, C++, JavaScript, Python, C, R, Matlab, HTML, SQL
- **Tools:** JQuery, D3, NodeJs, BootStrap