

Jiang Gu

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Address: 999 ABC Street, San Francisco, CA

EDUCATION

Ohio State University, Columbus, Ohio

Sept 2015-May 2017

M.S. in Computer Science, **GPA: 3.84**

Relevant Courses: Server-side Development with NodeJS, Foundation of Data Structure and Algorithm, Computer Network, Cloud Computing, Distributed System, Natural Language Processing

Honors: Graduation with Highest Distinction

University of Electronic Science and Technology of China, Chengdu, China

Sept 2011-July 2015

B.S. in Computer Science, **GPA: 3.9, Rank: 10/300**

Relevant Courses: Data Structure, Algorithms, Operating System, Computer Architecture, Database and Applications, Web Development, C++ Languages, Java Languages, Machine Learning

Honors: Outstanding Student

SKILLS

Language: Java, JavaScript, C++/C, Python, CSS, HTML, MATLAB, C, Node.js, JQuery, Ajax, Hadoop, Spark

Framework: AngularJS, Bootstrap

Database: MySQL, MongoDB, Neo4j

WORK EXPERIENCES

Amazon, AWS Infrastructure Seattle, WA

Feb 2016-Apr 2016

Software Engineer Intern

- Utilized Tweepy API of Python to crawl data related to user relationships and hot topic trend in different locations.
- Implemented PageRank Algorithm in Scala to get the rank of user and analyzed Twitter Social Graph.

Data Mining and High Performance Computing Lab Columbus, OH

July 2014-Apr 2015

Research Assistant

- Developed a Matlab program to detect ship in images using THT, Wavelet transform and Otsu algorithm and split the ship image from the original large images
- Built a Batch program which can label different ship images according to the ship type and translate the image format from JPEG to LMDB for model training
- Constructed an 8 layers CNN model to predict the type of ships and achieved the accuracy to 95%

PROJECTS

Web Development: Car Sharing Website

Aug 2016-Sept 2016

- Designed a car sharing website architecture on Django, and determined model schema and agile project components.
- Used weighted Breadth First Search for detecting the near-by cars.
- Developed highly-extendable REST APIs by implementing Django-style routing, ORM, authentication and admin.

Matrix Factorization with SGD

June 2016-July 2016

- Utilized the pySpark programming model in an iterative machine learning application.
- Implemented matrix factorization by stochastic gradient descent (SGD) optimization to decrease the difference between suppose and reality to a certain threshold.
- Applied diagonal block to perform the parallel calculation instead of sequential calculation.

Web Development: Online Social Network

Apr 2016-May 2016

- Developed a social network with Django web framework using Bootstrap and Ajax.
- Provided asynchronous features of authentication, validation, posts and comments, groups and real-time updates.

3D Rendering with OpenGL

Sept 2015-Dec 2015

- Used C++ to write OpenGL 3D programs with lighting, shader and texture mapping.
- Based on hierarchical transformation and vertex buffer object, drew self-defined models, ply models, environment, and reflective objects with texture mapping and cube mapping.