Longqi (Rocky) Cai

Software Engineer interested in Machine Learning 515 South Aiken Avenue, Pittsburgh, PA

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Education

Carnegie Mellon University

M.Sc. in Information Technology Strategy

Fudan University

B.Sc. in Computer Science and Technology

Pittsburgh, PA Sep. 2015 - Dec. 2016 Shanghai, China Sep. 2011 - Jul. 2015

Experience

Glow, Inc

Software Engineer

San Francisco / Shanghai Jul. 2014 - Jul. 2015

- Contributed 18k lines to Glow app, 8k lines to Nurture app.
- Mainly worked on Android, sometimes on server.
- Customized fancy UI widgets and animation.
- Set up internal Maven center with Archiva and Gradle.
- Integrated Google Now API, including both server and client side OAuth2 flow.

Github Repositories

- Caffe Exts Integrated Message Passing Interface (MPI) for distributed training. Implemented fast Hough transform layer for powerline detection task.
- Halstm Implemented Long-Short Term Memory (LSTM) with Halide. Improved CPU performance by 2x speedup.
- Alg Implemented commonly used algorithms and data structures.

 Including hash map, min/max/med heap, avl/red-black tree, order statistics, graph traversal, etc.
- ML/BigML/PGM Implemented machine learning algorithms.

 Including SVM, SVR, logistic regression, decision tree, HMM, LDA, sampling methods, etc.

 Some of them used Hadoop, Spark, or Parameter Server for big data.

Language

- Python lover; experience with machine learning, algorithm, data processing/analysis/visualization.
- Java experience with Android and Big Data; C++ experience with Caffe extensions; Shell experience with batch processing; Makefile/CMake/Gradle experience with project setup; HTML/Javascript/CSS experience with short demos; Vagrant/Docker experience with environment setup; C/Assembly experience with 15213; CUDA experience with 15418; Latex and Markdown experience with documents.