

Shangtong Zhang

Resume

Apt 416, 11104, 84 Ave, Edmonton, Alberta, Canada

+1 780-807-1902

✉ zhangshangtong.cpp@gmail.com

📄 github.com/ShangtongZhang

Education

- Sept.2012–
July.2016 **Bachelor of Science, Computer Science, Fudan University**, Shanghai, China, GPA 3.57/4.0, Rank 9/84.
Thesis: Text matching with LSTM and Earth Mover's Distance, advised by Prof. Wenqiang Zhang
- Sept.2016–
Sept.2018 **Master of Science, Computing Science, Statistical Machine Learning, University of Alberta**, Edmonton, Canada, GPA 4.0/4.0.
Supervised by Dr. Richard S. Sutton in RLAI lab

Experience

Employment

- July.2015–
May.2016 **SAP, Shanghai, China**, Javascript intern in UI commons of SuccessFactors.
○ ConfigUI, a framework to render UI layout with complicate tree-structured metadata
○ DWRExplorer, a chrome plugin to parse DWR request/response into tree structure
- Sept.2016–
Present **University of Alberta, Edmonton, Canada**.
Teaching Assistant for CMPUT229 *Computer Organization and Architecture*

Academic Experience

- Sept.2014–
Feb.2015 **Music Information Retrieval**, Use CNN to perform music classification, supervised by Prof. Xiaoqing Zheng in FDU, co-author for *A Deep Neural Network for Modeling Music* in ICMR 2015.
- Feb.2014–
Jun.2014 **Car Plate Recognition**, Use OpenCV and Naive Bayes Classifier to perform car plate recognition, supervised by Prof. Wenqiang Zhang in FDU.

Selected Projects

- Feb.2014–
Sept.2014 **Google Summer of Code 2014**, Complete GSoC 2014, contribute to *Xapian*, a C++ search engine, in optimizing the storage of *post list* and *position list* by *Vector of Splits Encoding* and *skip list*.
- Jan.2015–
Jun.2015 **MLPack**, Contribute to MLPack, a scalable C++ machine learning library with advanced C++ template technique.
○ A framework for *Mean Shift* algorithm which is 3.7 times faster than *Scikit* does.
○ A detachable framework for various *Convolutional Neural Network* and implement *LeNet1* as a test case.
○ A uniform framework for *manifold learning* including *Isomap*, *LLE*, *MDS*.
- Sept.2016–
Nov.2016 **RL: An Introduction**, Write python code for Sutton & Barto's book *Reinforcement Learning: An Introduction (2nd Edition)*.
This repository earns more than 500 stars and 200 forks in Github
- Jun.2016–
Present **SlardarOS**, *Build my own toy OS from the very beginning with C++14 and STL containers..*
Includes virtual memory, interruption, privilege level switch and mutli-processes (in progress)
- May.2016–
Present **Stack Overflow**, Earn more than 1000 reputations in C++ related tags, solve some problems about auto-completion in using libclang.
- Sept.2015–
Nov.2015 **FudanDNN**, *A Deep Learning Framework with Easy-to-use GUI*.
Support various kinds of neural networks, such as RBM, CNN, LSTM

Awards

- Sept.2014 **EMC Scholarship**, Fudan University.
- Apri.2016 **Second Class Scholarship**, Fudan University.
- Jan.2017 **Research Assistant**, University of Alberta.