Luting **Wang**

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Education

Carnegie Mellon University — *Pittsburgh, PA*

Master of Electrical and Computer Engineering (Joint Institute of Engineering) — *May 2017 (expected)*

- GPA: 4.0/4.0
- Selected Coursework: Cloud Computing, Introduction to Computer System, How to Write Fast Code

Sun Yat-sen University — *Guangzhou, China*

Bachelor of Electronics and Information Technology — *July 2015*

- GPA: 3.8/4.0
- Graduate with honor thesis (Acceptance Rate:1%): Research on ”smart” active pixel sensor

Experience

NVIDIA Corporation, Android Web Service Team — *Shenzhen, China*

Software Engineering Intern — *June-August 2016*

- Implemented and developed a web system to collect, analyze and visualize httplogs saved in PostgreSQL and client data in MongoDB.
- Designed parallel system in place of pipeline framework to process big data using Hadoop Hive and Hbase.

Chinese Academy of Sciences, Institutes of Advanced Technology — *Shenzhen, China*

Research Assistant Intern — *May-July 2015*

- Researched and analyzed different algorithms on rain detection and removal from videos.
- Implemented a fast algorithm that can be used in heavy rain weather, increasing the resolution of videos.

Projects

Voice Conversion for Mandarin Electrolaryngeal Speech

Research Project — *Spring 2016*

- Designed and developed a hybrid approach for electrolaryngeal voice conversion using Non-negative Matrix Factorization (NMF) and Gaussian Mixture Model (GMM) on Matlab.
- Enhanced the naturalness and intelligibility of converted speech, reduced speech feature distortion by 7.1 dB and increased the pith correlation coefficient to 0.54.

Movie Rating with Collaborative Filtering

Course Project — *Spring 2016*

- Built and implemented an Item-Based Recommendation System with Hadoop using 10 million ratings on Amazon Web Services.
- Further Developed it with Apache Spark to achieve 2x speed up.

Speech Recognition System of Telephone Numbers

Course Project — *Fall 2015*

- Designed and constructed an integrated speech system to recognize telephone numbers using C++ on Visual Studio.
- Applied it on Aurora2 corpus with 8400 training recordings and 1000 testing recordings, which achieved 75% recognition accuracy.

Skills

Programming C/C++, Java, Python, Scala

Database PostgreSQL, MongoDB, Hbase

Honors

2014 **The Meritorious Winner**, The Mathematical Contest In Modeling (MCM)

2014 **The Best Oral Presentation Award**, The 6th International Conference on CAD-TFT