

# Chiamin Wu

## Apply for 2019 Full Time Deep Learning Engineer

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### EDUCATION

#### GEORGIA TECH

##### MS IN COMPUTER SCIENCE

Expected Dec. 2018 | Atlanta, GA

Cum. GPA: 3.80 / 4.0

#### NATIONAL CHIAOTUNG UNIV

##### BS/MS IN ELECTRONICS ENG.

Feb. 2013 | Hsinchu, TW

Cum. GPA: 3.76 / 4.0

Cum. GPA: 3.94 / 4.0

### COURSEWORK

#### GRADUATE

Machine Learning

Machine Learning for Trading

Computer Vision

Behavior Imaging

Data and Visual Analytics

Big Data Analytics for Healthcare

Advanced Algorithm

#### UNDERGRADUATE

Computer Programming

Robotics Technology

Engineering Graphics

Statistics

Stochastic Processes

### SKILLS

#### LANGUAGE

Python (20000+ lines)

C/C++ | Java | Matlab

Scala | Perl | Shell

HTML + CSS + JavaScript

#### FRAMEWORK/LIBRARY

Tensorflow | PyTorch | Keras

Theano | OpenCV | Sklearn

Spark | Hadoop

#### PLATFORM/TOOL

Linux | Github | EC2 | S3

AWS Cloud Computing Service

Apache | Google Cloud

Flask | Django | MySQL

### EXPERIENCE

#### IBM RESEARCH | INTERN

May 2018 - Jul 2018 | Atlanta, GA

- Developed natural language processing (NLP) deep models for texture entailment
- Invented a new asymmetric word embedding algorithm can improve state-of-the-art NLP models on texture entailment task
- Implemented previous state-of-the-art models such as DEISTE and Decomposable Attention on Theano and PyTorch
- Achieved current state-of-the-art texture entailment **model** has accuracy 84.4 % and improved DEISTE accuracy over 2.1 %
- Submitted this work to NLP top conference **NAACL 2019**

#### GEORGIA TECH | RESEARCH ASSISTANT (COMPUTER VISION)

Jul 2018 - Present | Atlanta, GA

- Developed the real-time CNN-based traffic detection system from scratch
- Delivered reliable and reusable algorithms to SF express
- Designed several computer vision techniques such as **Faster-RCNN**, YOLO and SSD on Tensorflow/Keras in Python for traffic objection detection
- Implemented several deep learning models such as ResNet, Inception, DenseNet, and MobileNet for traffic sign classification
- Implemented real-time CNN-based deep learning models for **GPS localization**

#### GEORGIA TECH | RESEARCH ASSISTANT (HEALTHCARE)

Sep 2017 - Jul 2018 | Atlanta, GA

- Wrote code examples for textbook "Machine Learning for Healthcare"
- Cooperated with several medical doctors from Massachusetts General Hospital
- Created deep learning models on Tensorflow to automatically detect and classify different stages of epilepsy
- Implemented a **website** on Django in Python and designed user interface (UI) for medical doctors to collect, label and visualize medical records

#### PIXART IMAGING | CAMERA IC DESIGNER

Feb 2013 - Dec 2016 | Hsinchu, TW

- Designed camera ICs with different resolutions
- Developed applications for Qualcomm cellphone IC, Amazon firephone, LG watch and Panasonic visual Intercom
- Published US patents and won 2017 most valuable patent award

### PUBLICATIONS

- [1] Tengfei Ma, **Chiamin Wu**, Cao Xiao, Jimeng Sun. AWE: Asymmetric Word Embedding for Textual Entailment. *NAACL*, 2019 (Under review).
- [2] Jimeng Sun, Cao Xiao. Machine Learning for Healthcare. *Book*, 2019.
- [3] **Chiamin Wu**. IRE level calibration method on TV DAC. *US Patent No.*: 14/960, 251.