Chiamin **Wu**

Apply for 2019 Full Time Software Engineer

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EDUCATION

GEORGIA TECH
MS IN COMPUTER SCIENCE
Expected Dec. 2018 | Atlanta, GA
Cum. GPA: 3.8 / 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 Visualization
Big Data for Health
Advanced Algorithm

UNDERGRADUATE
Computer Programming
Robotics Technology
Engineering Graphics
Statistics
Stochastic Processes

SKILLS

LANGUAGE
Python (20000+ lines)
Java | C/C++ | Matlab
HTML + CSS + JavaScript

FRAMEWORK
Tensorflow | PyTorch | Keras
Theano | OpenCV | Sklearn
Spark | Hadoop

PLATFORM/TOOLS
Linux | Github | EC2 | S3
AWS Cloud Computing Service
Flask | Django | MySQL

EXPERIENCE

IBM RESEARCH | INTERN
May 2018 - Jul 2018 | Atlanta, GA
- Developed natural language processing (NLP) deep models for texture entailment
- Implemented a new asymmetric world embedding algorithm can outperform current State-of-the-art NLP models on texture entailment dataset SciTail
- 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 accuracy 84.4 % and improved DEISTE accuracy over 2.1%
- Submitted this work to NLP top conference AAAI 2019

GEORGIA TECH | RESEARCH ASSISTANT
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 traffic sign localization

GEORGIA TECH | RESEARCH ASSISTANT
Sep 2017 - Jul 2018 | Atlanta, GA
- Wrote code examples for textbook "Introduction to Deep Learning for Healthcare"
- Cooperated with several medical doctors from Massachusetts General Hospital
- Implemented a website on Django in Python and designed user interface (UI) for medical doctors to collect, label and visualize medical records
- Created deep learning models on Tensorflow to automatically detect and classify different stages of epilepsy

PIXART IMAGING | CAMERA IC DESIGNER
Feb 2013 – Dec 2016 | Hsinchu, TW
- Designed hardware of image sensors with different resolutions
- Developed front cameras for Qualcomm cellphone IC and Amazon firephone
- Designed image sensors for LG watch and Panasonic visual Intercom
- Published US patents and wined 2017 most valuable patent award

RESEARCH

DEEP LEARNING FOR HEALTH LAB | RESEARCH ASSISTANT
Sep 2017 – Present | Atlanta, GA
Worked with **Prof Jimeng Sun** to create deep learning models for medical application

PUBLICATIONS

[1] Cao Xiao Jimeng Sun Tengfei Ma, Chiamin Wu. Awe: Asymmetric word embedding for textual entailment. *AAAI*, 2019.

[2] Cao Xiao Jimeng Sun. Introduction to deep learning for healthcare. *Book*, 2019.

[3] **Chiamin Wu**. IRE level calibration method on TV DAC. *US Patent No.: 14/960, 251.*