CHIAMIN WU

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404-719-2528

Apply for 2019 Full Time Software Engineer

EDUCATION

GEORGIA TECH
MS IN COMPUTER SCIENCE
ExpectedDec.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
CumGPA: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)
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
- Invented a new asymmetric world 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 **AAAI 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 "Introduction to Deep 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 |CAMERAICDESIGNER
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 wined 2017 most valuable patent award

PUBLICATIONS

[1] Tengfei Ma, **Chiamin Wu**, Cao Xiao, Jimeng Sun. AWE: Asymmetric Word Embedding for Textual Entailment. *AAAI*, 2019 (Under review).

[2] Jimeng Sun, Cao Xiao. Introduction to Deep Learning for Healthcare. *Book*, 2019.

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