Haicheng Wang

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EDUCATION

University of Toronto

Toronto, Canada

Master of Science (Applied Computing) in Computer Science. 4.0/4.0.

Sep. 2018 - Dec. 2019 (estimated)

University of Hong Kong

Hong Kong, China

Bachelor of Engineering (Computer Science); 3.67/4.3 First Honor.

Sep. 2014 - Jun. 2018

Shanghai Jiao Tong University

Shanghai, China

Summer Exchange; 90/100.

Jul. 2015 - Aug. 2015

EXPERIENCE

ModiFace

Toronto, Canada

Machine Learning Research Internship

May. 2019 - now

• Role: Searching and evaluating Deep Learning methods applied to virtual reality applications. Developing new algorithms & models for faster and higher performance of the services. (Pytorch, Python, Bash)

Vector Institute

Toronto, Canada

Research Engineer

Jan. 2019 - May. 2019

• Instance segmentation project: Implementing performance enhancement plan (including models, pre-processing methods, self-defined objective functions) as requested by researchers. (Pytorch)

Department of Computer Science, University of Toronto

Toronto, Canada

Teaching Assistant

Sep. 2018 - Apr. 2019

o CSC369 Operating System: Leading tutorials, marking assignments & tests, holding office hours etc.

Department of Computer Science, University of Hong Kong

Hong Kong, China

Research Assistant

Jan. 2017 - Jun. 2018

- HKU-Face: Final year project related to Face Recognition with Deep Learning; 70M facial images were collected with novel filtering processes. (Python, C++)
- Small Domain Image Classification: Based on high-resolution GAN-augmented data, we achieved a reduction of 38% error of state-of-the-art model in Oxford-102 dataset was achieved. (C++, Python)

Hop Hing Kitting Factory

Hong Kong, China

Software engineer

Apr. 2016 - Oct. 2016

- o Data Collection: Building multi-process software to get real-time, structured financial data. (Python, Bash)
- Data Analysis: Running customized GPU algorithm for market data and making decisions and achieved fully algorithmic decision-making process. (Python, C++, CUDA)

PROJECTS

- Caffe-iOS: Adapted Caffe framework on iOS devices. Enable iPhone 8 to perform CPU inference 4x faster than MacBook Pro(i5 4308U) for CNN, RNN models. (C++, Objective-C, Metal)
- Chainer2Caffe, MXNet2Caffe: Tools to transfer Model & Parameter from Chainer, MXNet to Caffe. (Python)
- Curiosity-RL: Course Project on Deep Reinforcement Learning at UofT. Designing and evaluating several novel curiosity rewards for model-based Reinforcement Learning. (Python)
- Google Image Downloader: Open source project of image crawler with stableness, easy deployment and awareness of anti-bots. (Python)
- Staff Development Platform: A maintainable prototype of online learning platform in Django. (Python, JavaScript, HTML)

SKILLS

- Languages: Python, C++, Java, C, MATLAB, JavaScript, Haskell, HTML, MySQL Techniques: Linux, CMake, Django, Design Pattern, Ajax
- Deep Learning: PyTorch, Caffe, Keras, TensorFlow, MXNet, Chainer, CUDA