YICHEN PAN

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EDUCATION

Carnegie Mellon University - Information Networking Institute

Pittsburgh, PA

Master of Science in Information Networking

Expected May 2019

Relevant Courses: Computer Systems, Cloud Computing, Distributed System, Database, Deep Learning, Search Engines

The University of Nottingham Ningbo China

Ningbo, China

BSc Hons Computer Science (First Class)

Aug. 2013 - Jul. 2017

GPA: 4.0/4.0 (1/46)

SKILLS

Computer Languages Java, Python, Javascript, C/C++, Golang, Bash, Matlab, MEAN Stack, Haskell, R

Tools Unix, Pytorch, TensorFlow, Keras, Scikit-learn, OpenCV

Databases MySQL, MongoDB, Redis, Cassandra

INTERNSHIP EXPERIENCE/PROJECTS

 $\operatorname{LinkedIn}$

Software Developer Engineer Intern

May.-Aug. 2018

San Francisco, CA

- · Frontend software engineering for LinkedIn's Document player (SlideShare player): maintenance, feature enhancement and performance optimization (Vanilla JS).
- · Full-stack software engineering for Document re-uploading on LinkedIn Share Posts with attached Documents: implementing end-to-end flow for users to re-upload files and edit for the posted posts (EmberJS, Java)

Alibaba Group

Jun.-Sept. 2016

Algorithm Engineer Intern

Hangzhou, China

- · Developed an automatic mobile-based speaker verification system based on acoustic modeling.
- · Implemented several state-of-art machine learning approaches, including GMM-UBM, I-vector, JFA based on Kaldi framework.
- · Proposed optimization based on DTW and highly representative feature d-vector from **DNN**.
- · Designed an intelligent robot capable of face recognition, access system control, light control and human interaction, with the funding from GNomeMagic Lab based on Raspberry Pi, Open CV and Qt. (**Best project** in 2016 Summer Hackathon at Taobao)

QuickNote

Oct. 2015 - Present

Project Leader, Full-stack Developer

http://quicknote.org

- · Self-initiated **open-source** project, main contributor and maintainer.
- · Designed a scientific cross-platform note-taking application which highly supports multimedia based on **MEAN stack** and **node-webkit** technique.
- · Fully in charge of both front-end and back-end and led the team to complete a full cycle of the software engineering process.
- · Deployed at the University of Nottingham as Open Education Resource

PanFS: a high-throughput and low-latecacy distributed file system

Jan. 2018 - May. 2018

- · Based on Facebook's Haystack, implemented a high-throughput and low-latency distributed file system using Golang.
- · Deployed as distributed file storage system for QuickNote in practice.

Lucene based Search Engine development

Sep. 2017 - Dec. 2017

· Developed a Lucene based serach engine in **Java** witch supports boolean retrieval, ranked retrieval (BM25 and Indri), structured query retrieval, query expansion (i.e., pseudo relevance feedback), learning to rank (using rankSVM) and diversification (PM-2 and xQuAD).

Feature Extraction via Random Recurrent Deep Ensembles

Sep. 2016 - May. 2017

- · Designed a CNN and LSTM based ensemble framework (RRDE) to extract highly discriminative feature representation of image in **Python Tensorflow and Keras**, and applied RRDE for group-level happiness intensity prediction in wild.
- · Applied the proposed framework in wild Group-level Happiness Estimation task, and best result yielded a 0.55 root-mean-square error (RMSE) on validation set of HAPPEI dataset, close to first place in 2016 EmotiW competition.

SELECTED HONORS/AWARDS

President Award for Outstanding Graduate, The University of Nottingham (1 in 5)	Jun. 2017
SIGSOFT CAPS-UG Award, ACM SIGSOFT	Mar. 2017
Best Student of the Year, The University of Nottingham (Best student in each department)	Dec. 2016
President's Scholarship, The University of Nottingham (Top 1%)	Dec. 2016
China National Scholarship, Ministry of Education of The People's Republic of China	Nov., 2016