

ZISHENG YE

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EDUCATION

McGill University

Sept 2016 - Present

Bachelor of Science

Major in Statistics and Computer Science, Minor in Mathematics

The Chinese University of Hong Kong

Jan 2019 - May 2019

Exchange student in Computer Science and Engineering

PROJECTS

Detecting Similarities of Computer Programs in Generalized Languages

Aimed at studying the current state-of-the-art techniques in detecting similarities of computer programs. Adapted and adopted suitable techniques for detecting similarities in programs in a text-based form. Proposed novel methods in similarity measurements of vectors. Made an oral defense.

Identity Finder

Aimed at helping find the children that lost in their early ages. Trained a CNN in PyTorch to measure the similarities between profiles in people's different ages. Made a UI in PyQt for users to upload paired pictures as inputs to the trained model. Test case precision 90%+.

EXPERIENCE

Prof. Jimmy Lee's Group, The Chinese University of Hong Kong

Jan 2019 - May 2019

Research Assistant

- Research on the project - *Detecting Similarities of Computer Programs in Generalized Languages*
- Aiming to gain experience in research methodology
- **Technologies:** Research, Programming Language, Plagiarism Detection, Similarity Measurement, Clustering

JD.com, Beijing & Nanjing

Jun 2018 - Aug 2018

Algorithm Engineer

- Took charge of an automatic customer service project in its second phase, discovered a better classification strategy using data mining technique, improved the theoretical performance from 20% to around 80% with slight compromise
- Designed and realized the advertising system in no-salesman stores using cameras to classify potential customers, and then applying strategies to display corresponding goods onto the advertising screens
- Prepared presentations of AI applications for JD.com workshop at IJCAI 2018
- **Technologies:** data mining, machine learning, deep learning, computer vision, recommender system, TensorFlow, Java, Python, SQL, MongoDB, LaTeX, Microsoft Office, Git

Apex Education Inc.

Jul 2018 - Present

IT Support Engineer (Part-time)

- Providing technical support to help improve teaching efficiency and effectiveness
- **Technologies:** Python, Microsoft Office, Batch script

Nanjing Xuduo Food & Beverage Management Co., Ltd.

Jun 2018 - Present

Algorithm Engineer (Part-time)

- Business Analysis and decision making
- Estimating the delivery fee using geographical features and up-to-date traffic situation
- **Technologies:** machine learning, Python, Microsoft Office, Tencent Mapping Platform

Research cooperation with Boyu Wang, AP at Western University

Jun 2018 - Present

Researcher

- Research about decoding in EEG-based Brain-Computer Interface using deep learning
- Research about applying transfer learning framework onto certain SOTA networks in CV
- In preparation of publishing a paper
- **Technologies:** machine learning, deep learning, transfer learning, computer vision, Brain-Computer Interaction, TensorFlow, PyTorch, Python

EXTRA-CURRICULAR

CUHK Inter-College Table Tennis Tournament

2019

Men's Groups

- Gold medal
- Raised funding: 4000 HKD

National Collegiate Table Tennis Association Great Lakes Regional Championship

2018

Men's Groups

- Gold medal
- Raised funding: 2000+ CAD

McGill Table Tennis Tournament

2017

Men's Doubles

- Gold medal

McGill Table Tennis Tournament

2016

Men's Singles

- Gold medal