CHANG YINGSHAN

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EDUCATION

Carnegie Mellon University
Aug 2020 - Present

Master of Language Technology

Hong Kong University of Science and Technology
Sep 2016 - Jul 2020

Bachelor of Science in Computer Science and General Mathematics

GPA: 4.038/4.3

Georgia Institute of Technology
Jan 2019 - May 2019

Outbound Exchange

GPA: 4.0/4.0

Peking University
Jul 2018

AEARU STEM Summer Camp

GPA: 93/100

RESEARCH EXPERIENCE

Low-Light Video Enhancement Using Deep Learning
HKUST, Aug 2018 - May 2020

Provide a novel approach to collect data of dark and blurry video frames with corresponding bright and sharp ground-truth images.

Propose an end-to-end CNN pipeline with a fine-tuning strategy for low-light video enhancement.

Evaluate the proposed pipeline on a new dataset with both numerical metrics and human perceptual evaluation.

Event-to-Sentence Using BERT in Automated Story Generation
Georgia Tech, May - Aug 2019

Implemented a Fill-in-the-Blank and an Editing-Writing network based on BERT, brought insight into the extent to which pretrained unsupervised models can contribute to story generation.

Building a Blockchain and Smart Contract Application
HKUST, Sep - Dec 2018

Implemented a smart contract based on Ethereum framework and developed a web interface for user interaction, which supports functions for transaction creation, manipulation and approval.

Smart Home Solutions with Gesture Interaction
HKUST, Jun - Aug 2017

Built a gesture-control light that works together with a gesture sensor and a PC in a wifi-connected local network.

WORK EXPERIENCE

HKUST Student Lab Helper
Hong Kong, Sep - Dec 2018

Assisted teaching and helped students complete programming assignments in lab sessions

Internship - Bank of China Software Center
Beijing, Jun 2018

Audited the Developers Conference and two cloud platform trainings directed by IBM and CloudWalk.

Assisted in value analysis and revision of 46 innovation initiatives related to mobile banking service.

HONORS

Dean's List - HKUST	2016-2020
University's Scholarship Scheme for Continuing Undergraduate Students – HKUST	2016-2019
The Cheng Foundation Scholarships for Chinese Mainland Undergraduate Students	2018-2019
The Hong Kong Electric Co.Ltd. Scholarship	2017-2018
Mingxi Youth Award Scheme	2017-2018

SKILLS

Languages	Chinese (native), English (fluent)
Programming	Python; Java; JavaScript; Matlab; HTML/CSS; C++/C; d3; SQL
Frameworks	PyTorch, scikit-learn, Tensorflow, Keras, Pandas, OpenCV, Matplotlib, NLTK
Software/Platforms	Visual Studio, IDLE(Python GUI), Github, Eclipse, VirtualBox, Tableau, Spark