ZHENGYU CHEN

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EDUCATION

Carnegie Mellon University, School of Computer Science — Pittsburgh, PA
Master of Science in Computer Science — *Sep 2018 - Dec 2019 expected*

Fall 18 Courses: Distributed System, Machine Learning, Natural Language Processing

University of Texas at Austin, Cockrell School of Engineering — Austin, TX
Exchange Student in Computer Engineering — *Jan 2017 - May 2017*

GPA: 4.0/4.0

Tsinghua University, School of Software — Beijing, China
Bachelor of Engineering in Software Engineering — *Aug 2014 - Jun 2018*

Minor in Business and Management   GPA: 89/100
Honor Student Scholarship, 2015, 2016

EXPERIENCE

Tsinghua University — Beijing, China
Senior Thesis advised by Prof. Guiguang Ding — *Feb 2018 - Jun 2018*

- Developed an online multi-person tracking system based on Multi-Object Tracking (MOT) Dataset
- Modified algorithm to reduce the ID Switch when frequent occlusion happens

UC Berkeley PATH Research Lab — Berkeley, CA
Advised by Prof. Ching-yao Chan and Trevor Darrell — *Jun 2017 - Sep 2017*

- Implemented a Multi-Object Tracking system to analyze video data using C++ and OpenCV
- Extracted the trajectories of cars that have passed through the scene on road
- Implemented a mapping system from the trajectories of cars in videos to real world coordinates using Python

LucidCam Co. — Santa Clara, CA
Tsinghua TIE Overseas Intern Program — *Jul. 2016 - Aug 2016*

- Surveyed VR trends, wrote a report about its current and future development
- Employed edge detection techniques, abstracted main object and changed the background of the photo

PROJECTS

Music Retrieval and Recommendation System — Tsinghua, Fall 2015

- Use C++ to analyze thousands of downloaded HTML webpages, extract song information and lyrics, store them in a tree structure and retrieve/recommend based on keywords frequency in lyrics, titles and singers

Wechat Concurrent Ticket Booking System — Tsinghua, Fall 2016

- Implemented a concurrent ticket booking system that can handle up to 1000 concurrent requests on a dual CPU server with less than 0.3‰ error, the User data was stored using MySQL

Image Editor — Tsinghua, Fall 2017

- Developed an image editor which can flexibly cut, rotate, regularize, equalize, specify image, change image color space and apply various filters on the image including advanced filters like Lomo and face whitening using C++, Qt and OpenCV

SKILLS

Programming	Python, C++, C, MATLAB, Go, JavaScript, SQL
Operating Systems	Mac OS, Linux, Windows
Tools	OpenCV, Qt