Siyuan Zheng

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EDUCATION

UNIVERSITY OF MICHIGAN
Master of Engineering in Computer Science & Engineering — *Sep. 2019-present*

- **Course Highlights:** Deep Learning for Computer Vision, Artificial Intelligence, Real-Time Computing

UNIVERSITY OF WUHAN
Bachelor of Engineering in Computer Science — *Sep. 2015-Jun. 2019*

- **Honors/Awards:** 1st level Scholarship by WHU for Academic Year 2017-2018 (awarded to top 5% of students)
- **Course Highlights:** Data Structure, Embedded Chips System, Database, Computer Network, Operation System

Imperial College London
Machine Learning, Robotics and Sensor Networks Summer School — *Jul. 2018-Aug. 2018*

- **Grade:** 92/100
- **Honors/Awards:** Best over all project

SKILLS

- **Language:** Python, Java, C, Javascript, C#, SQL, Matlab
- **Tools:** Arduino, Eclipse, NotePad++, Photoshop, Git
- **Framework:** PyTorch, Bootstrap,VUE
- **Platform:** Windows, IOS

WORK EXPERIENCE

Shenzhen Tianyuan Dic Information Technology — **Hefei, Anhui, China**
Software developer — *Jul. 2017-Aug. 2017*

- Build both front-end and back end of a website page of a telecom billing system.

PROJECT EXPERIENCE

A Traffic Light Scheduling System Webmaster — **Ann Arbor, MI** — *Sep. 2019-Dec. 2019*

- Design scheduling algorithm.
- Implement the algorithm with python which applies to the SUMO simulation.
- Reduce around 50% of the waiting time of pedestrians and vehicles compared with fixed time schedule.

Deep Learning For Computer Vision — **Ann Arbor, MI** — *Sep. 2019-Dec. 2019*

- Implement CNN, D-CNN, RNN with PyTorch.
- Realize style transfer, object detection, reinforcement learning and GAN.
- Design a CNN model to classify images achieving 72% accuracy within 60 seconds of training.

Feedie--Feeding Robot — **London, The Uk** — *Jul. 2018-Aug. 2018*

Leader

- The robot can distinguish and catch bread and water in bottle on the table and then send them to the user's mouth to help the disabled.
- Use Opencv to train a classifier to distinguish items and face.
- Recompile the code and use CUDA to accelerate.
- Implement the project with Arduino platform.

Heaven Street WHU--Electronic Map System Based On Virtual Reality — **Wuhan, Hubei, China** — *Jun. 2016-Aug. 2018*

- Use binocular cameras and drones to collect video data.
- Develop APP with Unity + C# with partner.
- Use 3D printing to make hanging baskets.

COMPETITION AWARDS

The Honorable Mention Award of MCM/ICM Contest 2018 — **Wuhan, Hubei, China**
Utilized MATLAB for data analysis&visualization and applied Hexagonal Urban Planning Theory for modeling. — *Jan. 2018*

Championship of 3rd BSC X Business Simulation Competition — **Wuhan, Hubei, China**
Participated in data access, process and analysis — *Dec. 2017*

The 3rd Prize in Hubei Province of
3rd China College Students "Internet Plus" Innovation and Entrepreneurship Competition — **Wuhan, Hubei, China** — *Dec. 2017*