YUE ZHANG

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EDUCATION

University of Michigan - Ann Arbor *Expected on Apr. 2020*
Bachelor of Science in Computer Science, Minor in Mathematics *GPA: 3.6(overall), 3.8(Math)*
- Coursework: Game design, Computer Vision, Web development, Machine Learning, Algorithm, Data Structure, Linear Algebra, Numerical Methods, Computer Organization

Shanghai Jiao Tong University (UM-SJTU Joint Institute) *Expected on Aug. 2020*
Bachelor of Science in Electrical and Computer Engineering *GPA: 3.5*
- Coursework: Discrete Mathematics, Statistics, Programming, Electromagnetism, Circuit

RESEARCH & PROJECTS

Health Text Mining about Medicine Side Effect from Social Media
University of Michigan, Ann Arbor, United States
(Tutor: V.G.Vinod Vydiswaran @ UMSI, One of my recommenders) *Sep. 2019 - now*
- Constructed and cleaned the data-set of side effect and drug with text extraction and normalization.
- Designed and maintained a scalable data retrieve structure to store and manipulate the data.
- Implement a web crawler to grab the drag name from the social network by Python.

Interpreting Hand Gestures using Smartphones Dual-lens Cameras
University of Michigan, Ann Arbor, United States
(Instructor: David Fouhey @ Umich EECS, One of my recommenders) *Sep. - Dec. 2019*
- Gathered and cleaned the data-set of hand gestures for deep learning and wrote corresponding data loader.
- Designed neural network with PyTorch and detected hand gesture with successful rate over 91%.
- Helped develop in-time hand gesture detection system and complete the report.

WORK EXPERIENCE

Robotic Navigation Algorithm Intern
KeenOn Robotics, Shanghai, China
(Mentor: Yayun Yang, One of my recommenders) *Jun. - Aug. 2019*
- Analyzed source code and algorithms for Robot Operating System in field of navigation, localization and mapping.
- Reconstructed about thousand-line codes to ameliorate partial functions to realize key framing detection and map matching in SLAM.
- Built a visual odometry by applying optic flow and FAST feature matching algorithm, while implementing struct-SLAM structure.

Grader of MATH 214 *Sep. - Dec. 2019*
University of Michigan, Ann Arbor, United States
- Formulate the rubric of the assignments to ensure the consistent grading strategy among the graders.
- Graded over 200 assignments and test papers online and responded to the feedback.

SKILLS & AWARDS

Languages(proficient): Python, C/C++, Matlab, JAVA, R, Verilog, SQL, Latex, Office, Linux, ROS
Dean's List, University of Michigan, 2018 winter
Outstanding Student Scholarship, Shanghai Jiao Tong University, 2018
Dean's List, University of Michigan - SJTU Joint Institute, 2017 fall and summer