Yue Meng

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Education

- **University of California San Diego**, San Diego, CA, USA
  Master of Science, Electrical and Computer Engineering — Sep. 2017 - Jul. 2019
  Cumulative GPA: **4.0/4.0**
  Courses: Computer Vision, Neural Networks, Statistical Learning, Sensing & Estimation in Robotics
- **Tsinghua University**, Beijing, China
  Bachelor of Engineering, Automation — Aug. 2013 - Jul. 2017
  Cumulative GPA: **87/100**

Work Experience

- **Research Assistant**, University of California, San Diego, CA, USA — Jan. 2018 - Current
  - Implemented Multi-State Constraint Kalman Filter algorithm, a classic visual inertial solution for SLAM problem. Reached comparable performance as illustrated in the paper.
  - Currently making quadrotor simulation package based on ROS system and Gazebo simulation infrastructure.
- **System Development Intern**, TuSimple Inc, Beijing, China — Jul. 2017 - Sep. 2017
  - Implemented ROS node to capture real-time videos from cameras on minibus and integrated faster-rcnn algorithm in the node for object detection.
  - Optimized the image process procedures and increased the handling speed by 40%.
  - Created dockerfiles enabling all the components to run isolated from the machine environment.

Projects

- **Computer Science Ranking Website** — Feb. 2018 - Current
  - Developed a website for metrics-based ranking of top computer science institutions
  - Wrote in Vue.js and Flask and followed RESTful pattern
  - Used PostgreSQL on DBLP database with 6 million records
  - Designed incremental query concept to optimize real-time performance
- **Auto Music Generator**
  - Used Recurrent Neural Network to generate music in ABC notation
  - Chose LSTM and GRU model in Pytorch and designed early stopping conditions for training

Skills

- **Programming**: Python, Matlab, C/C++, C#
- **Tools**: ROS, Gazebo, (GPU-based) Pytorch, Docker, Git, LaTeX
- **OS**: Linux, Windows