Yanjie Ze

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EDUCATION

- **Shanghai Jiao Tong University**   Shanghai,China
  Bachelor of Engineering in Computer Science and Engineering   *2019 – 2023*
  Former Member of Zhiyuan Honor Program of Engineering
  First Year GPA: 3.9/4.3(rank 12/118)

RESEARCH EXPERIENCE

- **Machine Vision and Intelligence Group**   SJTU, China
  Research Member   *Oct 2020 - Present*

  ○ **3D computer vision**: Guided by my mentor Yang You, I have been learning about 3D computer vision. I have
  tried to implement PointPillars. Recently, our research mainly focus on 3D instance segmentation and 3D object
  detection.

- **Research on Character Recognition Based On Machine Vision**   SJTU, China
  Member   *Feb 2020 - Aug 2020*
  Guided by Professor Yansong Zhang , I got basic knowledge of Machine Learning and Computer Vision.
  Then I used the dataset based on the components from the workshop and the steamship ,which is divided
  into three big classed and many subclasses, and I trained a trivial CNN for the classification, which could
  have accuracy over 95%. Code is here.

- **Study on the Theory and Algorithms of Reinforcement Learning**   SJTU, China
  Member   *Jan 2021 - Present*
  Guided by Professor Shuai Li, I start to study Online Learning and Reinforcement Learning. What's
  more, I have been participated in a new research, mainly focusing on Multi-agent.

PROJECTS

- **Visual Localization Project**
  Creator and Maintainer   *Oct 2020 - Jan 2021*
  This is a computer vision project, based on both classic and advanced computer vision algorithm, using
  openCV, python and Mindvision industrial camera. In this project, I create a two-stage algorithm, which
  first uses yolov5 model to detect the tag and then uses contour extract alogorithm and solves PnP problem
  to return the camera's coordinate. Code is here.

- **Point Pillars Implementation**
                                                                                                       Feb 2020 - Mar 2020
  Based on the paper: PointPillars: Fast Encoders for Object Detection from Point Clouds, I make a trivial
  implementation of the algorithm. Code is here.

- **Image Caption Generator**
                                                                                                       Mar 2021 - present
  Based on the paper: Show and Tell: A Neural Image Caption Generator, I make a trivial implementation of
  the algorithm.Code is here.

TEACHING EXPERIENCE

○ Teaching Assistant in ME901:Engineering Practice Exploration and Research, Oct 2020 - Jan 2021

○ Academic Counselor in CS171:C++ Programming Language, Dec 2020