

Tianyue Zhao

Email: tiz001@ucsd.edu

Github: [Tianyue-Zhao](#)

LinkedIn: [Tianyue Zhao](#)

Overview

Current freshman at UCSD, math major specializing in algorithms and data science.

Skilled at preprocessing data, selecting and implementing a variety of algorithms, and presenting the results with specialized visualization tools.

Skills

Neural Networks	Tensorflow (GPU)	Matplotlib visualization
Python (Numpy)	Clustering algorithms	Git

Experience

Project Drive Team (Annual project) – *IEEE, October 2019–Present*

- Implementing a simultaneous localization and mapping (SLAM) system, which will compete in the F1/Tenth self-driving competition in July 2020.
- Helped set up the Docker environment for ease of testing and deployment.

Software Development Intern – *Offpay, Inc., Summer 2019*

- Built the online payment framework for the retail startup.
- Deployed ~60 commits to the production Django API framework
- Set up and migrated the company's repository to a local Gitlab continuous integration system, running on the development server.

Research Internship – *UCSF Neuroscape lab, Summer 2018*

- Analyzed Kinect motion capture data from the lab's training video game.
- Developed and tested an RNN to analyze the video-like data, including a Kalman filter to reduce noise in preprocessing.
- Visualized data with Matplotlib and OpenCV.
- Extensively discussed with the professor and research assistants.