Zifan Zhou

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Education

University of California, Los Angeles (UCLA) **Sep. 2021 – Present**
Bachelor of Science in Computer Science and Engineering *Los Angeles, CA*
GPA: 3.804/4.0; Dean's Honors List (Fall, 2021); Louis Levoy Engineering Scholarship (Winter & Spring, 2022)

Raritan High School **Sep. 2017 – Jun. 2021**
High School Diploma *Hazlet, NJ*
Unweighted GPA: 97.008; Weighted GPA: 107.423/100; Class Rank: 1/228

Relevant Coursework

- Introduction to Computer Science
- Data Structures
- Deep Learning for Computer Vision
- Introduction to Discrete Structures
- Calculus of Several Variables
- Linear Algebra
- Introduction to Computer Organization

Experience

ACM at UCLA **September 2021 - Present**
Member *Los Angeles, CA*

- Joined ACM ICPC and committed 10 hours weekly on algorithm and data structure training
- Joined ACM AI to learn the basics of AI and committed time to Computer Vision project
- Joined ACM AI Projects and worked on image recognition of whales

Technology Student Association at Raritan High School **Sep 2020 – June 2021**
President *Hazlet, NJ*

- Developed skills to organize events and coordinate groups to various projects for competitions
- Incorporated PyTorch with CNN to analyze image data
- Utilized Github to log and control the flow of projects
- Explored ways to visualize data output through MATLAB and PyTorch

Projects

Autonomous Driving | *PyTorch, Computer Vision* **January 2022 - March 2022**

- Reproduced *Learning to drive from a world on rails*, a high-ranked model on CARLA Leaderboard
- Added LiDar input to the original model to make the self-driving prediction more accurate
- Created a Google Colab Demo containing EgoModel as well as ResNet34 and Image Segmentation part of the model

Machine Learning of Image Recognition | *PyTorch, Python, PyCharm* **January 2021 - May 2021**

- Examined multiple datasets, including MNIST and CIFAR-10
- Analyzed multiple publications on top conferences to establish the desired model to optimize
- Learned how to improve the accuracy and speed of Machine Learning algorithms through multiple experiments

Technical Skills

Languages: Python, Java, C++
Developer Tools: VS Code, Eclipse, CLion, IDEA, PyCharm, Android Studio, MATLAB, Google Colab
Technologies/Frameworks: Linux, GitHub, PyTorch, TensorFlow
Machine Learning: Computer Vision, Autonomous Driving, Reinforcement Learning, Human-in-the-loop Machine Learning