

Ryan Zhang

STUDENT · INTENDED MAJOR (COMPUTER SCIENCE) · ELEANOR ROOSEVELT HIGH SCHOOL

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About Me

Programming Python · Git · GitHub
Analytics Pandas · Matplotlib · Streamlit
Web/Media HTML/CSS/Javascript · Photography · Lightroom · Office

Projects

Hough Art · [Hough Art Repo \(github.com\)](#) · [Hough Art APP \(streamlit.io\)](#)

PERSONAL PROJECT – DATA APP DEVELOPMENT

- Greatly inspired by the unit project for the class Computational Thinking at ELRO, I created a Streamlit app to empower all users to create beautiful art using hough transform which is originally intended for computer vision.

Shellfish Identification · [Shellfish Identification Repo \(github.com\)](#) · [Shellfish Identification APP \(streamlit.io\)](#)

ELRO STEM – DATA APP DEVELOPMENT

- Developed an app that classifies NYC Shellfish Species for an environmental conservation community project using pytorch and transfer learning. I collected the training data by scraping google images and used Resnet18 as the base model to freeze.

Race Time Calculator · [Race Time Calculator \(github.com\)](#) · [Race Time Calculator APP \(streamlit.io\)](#)

ROOSEVELT RACERS – DATA APP DEVELOPMENT

- Created a new physics model to calculate the race time of our CO2 dragster for the “F1 in Schools” competition. It was projected to potentially change the “F1 in Schools” competition by giving underprivileged school virtual access to a \$4000 test track.

Experience

Roosevelt Racers · [Eleanor Roosevelt High School \(github.com\)](#)

New York, NY

R&D Lead – RESEARCH & DEVELOPMENT TEAM

Sep. 2021 - Now

- Led the research for a Race Time Calculator with limited school supplies by coming up with creative solutions and improving the previous model by developing a user-friendly app plus refining the existing model.

ELRO STEM RESEARCH · [Eleanor Roosevelt High School \(github.com\)](#)

New York, NY

MEMBER - DEVELOPMENT TEAM

Sep. 2021 - Now

- Founded the ELRO STEM RESEARCH GitHub organization for future projects and to leave a legacy of research at ELRO to inspire future students interested in STEM.

Internships

Quarmega

New York, NY

MARKET RESEARCH INTERN – NYC DOE CS4ALL PATHFINDERS MENTORSHIP PROGRAM

Apr. 2021 - Jun. 2021

- Presented analyses to the founder of Quarmega on multiple market competitors and their business practices.
- Researched ways to streamline production and helped build/expand databases for potential product ideas and production.

Rebecca Cleaners

New York, NY

DELIVERY - HELPER

Jun. 2018 - Sept. 2019

- Spent the summer working by efficiently delivering laundry and dry-clean for my parent’s cleaner.
- I still help my parents from time to time when needed.

Education

Eleanor Roosevelt High School

New York, NY

CLASS OF 2024, INTENDED MAJOR (COMPUTER SCIENCE & Ph.D. IN MACHINE LEARNING)

Sep. 2020 – Now

- Cumulative Average - 99%