

Jeffrey Yang

Contact: (732) 822-3533 jeffreyyang217@gmail.com

Github: <https://github.com/jepher>

Website: <https://jepher.github.io/portfolio/>

EDUCATION

West Windsor-Plainsboro High School North

Sep 2015 – Jun 2019

GPA: 4.75 / 5.00

Rutgers University – New Brunswick

Class of 2023

Bachelor of Science in Computer Science and Economics

Minor in Mathematics

GPA: 4.00/4.00

Coursework: Multivariable Calculus, Linear Algebra, Discrete Mathematics, Statistics, Data Structures, Computer Architecture, Systems Programming, Microeconomics, Macroeconomics

EXPERIENCE

Rutgers Research Project, *Undergraduate Student Programmer*

Jun 2020 – Present

- Worked with a research project team and public transportation company to create a mobile app that allows users to track and interact with an autonomous transit system
- Created application front end using React Native and used Google Maps API, OpenTripPlanner, and MongoDB backend to create a client-side data management system

Intelligent Visual Interfaces Lab, *Undergraduate Research Assistant*

Jan 2020 – Jun 2020

- Created 3D traffic model in Unity with autonomous driver agents that interact with traffic lights and other driver agents
- Designed and implemented behavior tree to handle different traffic scenarios
- Created perception system that analyzes an agent's surroundings and calculates the data to pass into the behavior tree

Rutgers AIAA RUAutonomous Team, *Imaging Member*

Sep 2019 – Present

- Use computer vision and machine learning to achieve drone autonomy
- Collaborating with a 7-person team to improve data reporting accuracy by synchronizing image collection and telemetry reporting using an Arduino
- Optimize data communication protocols between drone and ground server

NYU CREATE Lab, *Design Lead*

Aug 2019 – Sep 2019

- Lead a 3-person team to design a 2D platform game in Javascript
- Wrote storyline, designed characters and maps, programmed game engine
- Contacted professional game developers to receive and incorporate feedback

PROJECTS

PennApps XVIII Hackathon: Airtunes

- Created Python program with a team of 4 that outputs audio responses to specific body motions to enhance dancing experience
- Trained neural net for image classification with Tensorflow and OpenCV and created user interface

Javascript video games

- Created three multi-level 2D roguelike fantasy games with Javascript using Phaser 3 library, with maps created using Tiled editor

Rain Alert app

- Created Android app that sends daily automated rain reports
- Analyzed weather data received from Accuweather API to generate warnings about various weather events

Calculator program

- Created scientific calculator program with graphical interface in Java using JFrame components that uses postfix expressions to perform calculations

SKILLS

Programming: Python, Java, C, C#, Javascript, HTML, CSS, MongoDB, Node.js, React.js, React Native, Android Studio, Unity, Git

Software: Figma, Adobe Photoshop, Adobe Illustrator

Languages: Chinese