ANKIT YANDE

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EDUCATION

University of Texas at Austin Class of 2023
Department of Computer Science (Turing Scholars, Dean's Scholars)

· Current Relevant Courses: Data Structures (Honors), Discrete Mathematics for CS (Honors), Multi-variable Calculus (Honors), Matrices and Matrix Calculations, Computer Organization and Architecture (Honors), Principles of Computer Systems (Honors), Robot Learning from Demonstration and Interaction (Research Stream)

RESEARCH/ PROJECTS

Using DeepRL to solve a 2D environment Spring 2020
Under Dr.Lioutikov (FRI Steam)

· Developed an end-to-end deep reinforcement learning policy that uses the pixel space as state representation to solve the Procgen Heist environment by reaching a target for a given seed.

Remote Sensing of Crop Pathology through Computer Vision Fall 2018 - Spring 2019

· Developed a Java program that could remotely detect various crop pathologies from a drone and differentiate between them. Created an application that could calculate the area of an infected region and map a basic path for a drone to deliver stress-relieving agents.

Developing a Navigation System Utilizing Stereoscopic Cameras for the Visually Impaired Fall 2017 - Spring 2018

· Developed a Java program to detect an object in two different camera feeds and then calculate the distance between the object and the cameras using an algorithm. This information was outputted via a text to speech software such that a person with visual impairments would be able to navigate to the object
· Awards: Intel Excellence in CS Award at NJRSF, First Place in Math and CS at NJRSF
· Invited to present research at the Lakehurst Naval Base for students with visual impairments as part of the state funded EDGE Program.

A Reflected-Laser Black Ice Detection System for Autonomous Vehicles Fall 2015 - Spring 2017

· Engineered a system that could detect ice on roadways from a moving vehicle. A microprocessor was used to process the data from light reflecting off the road into a photo-transistor and output a warning or provide safety features that could be applied to autonomous vehicles if black ice was detected.
· Awards: The US Air Force award at NJRSF, First place in Engineering at the New Jersey Academy of Science Junior Academy program, First place in Engineering at the Young Science Achievers Program, Second Place in Engineering and Technology at the Jersey Shore Junior Science Symposium, Material Science Award at NJRSF

WORK EXPERIENCE

Instructor at STEAM Works Studio: Edison Summer 2018 - Summer 2019
Taught elementary and middle school students in STEM fields.

· Taught classes on Python, basic electronics, and simple machines
· Mentored a group of students who are competing in the FIRST LEGO League (FLL) international competition

TECHNICAL STRENGTHS

Experienced: Java, C/C++, HTML/CSS
Familiar: Python, JavaScript, LaTeX

OTHER EXPERIENCE

UTeach Program
Professionally taught 3 full length lessons at an Austin ISD elementary and middle schools

Research Mentoring
Mentored middle school students to develop their first research projects