

John McGaughey

ML/AI ENGINEERING

ABOUT ME

A academically dedicated Senior at Frisco High School with aspirations in the machine and deep learning field of computer science and artificial intelligence.

EDUCATION

FRISCO HIGH SCHOOL

2018-2022 | Frisco ISD, Frisco TX

EXPERIENCE

2019 EMLER SWIM SCHOOL LIFEGAURD

- Tasked to make graphics for online layouts.
- Edited editorial photos for clients and magazines, and social media posts
- Organization of files

2021 OLIVE GARDEN HOST

- Tasked to work to management and staff to dynamically solve seating and typical restaurant problems
- Learned problem solving skills

2021 UNIVERSITY OF TEXAS TRANSPORTATIONS RESEARCH LAB

- Currently working closely with UT current and former researches to develop traffic optimization algorithms.
- Actively developing. a reinforcement learning algorithm for the purpose of minimizing an individual's traffic wait time.

SKILLS

Python	<div style="width: 80%;"></div>
Mathematics	<div style="width: 75%;"></div>
Simulation	<div style="width: 60%;"></div>
Problem solving	<div style="width: 85%;"></div>
Team Work	<div style="width: 100%;"></div>
Languages	<div style="width: 40%;"></div>

CONTACT

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INTERESTS AND HOBBIES

Practiced Gymnastics for 10 years

Self taught Piano and Guitar rock and jazz

Passed Chinese fluency test - HSK

CURRENT AP CLASSES

AP Chinese 4, AP Literature, AP Physics C, AP English Literature, AP Research, AP Macroeconomics

PROJECTS

2020 OPTIMAL SPECTROGRAM GENERATION FRAME-LENGTH

Under mentorship of Brian Temerowski

- Used k-fold cross-validation to determine optimal frame-length for short time Fourier transform in the recognition of command words.
- Used convolutional neural network built by Google in TensorFlow

2021 DEEP REINFORCEMENT LEARNING: POLICY OPTIMIZATION

>10,000 word paper on fundamentals of deep reinforcement learning

- A ground up explanation of deep reinforcement learning methods, specifically diving into the fundamental equations governing the study of policy optimization.

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