

Yuhan Xiao

Experience

Carnegie Mellon University Cylab (Jun - Aug 2018)

Research Assistant

- Led a team to pre-process the datasets used for deep learning algorithm in General Motor autonomous vehicles
- Developed new features for annotation tools such as label batch deletion and keyboard shortcuts to improve developers' user experience

BestWise Tech Co - Airport Transit Service App (Feb - May 2017)

Operation Team Member

- Improved the user experience of the airport transit system by developing a mobile app called Airport Transit Service
- Drove the communication between product managers and software engineers with feedbacks from end users

Carnegie Mellon University Academic Development (Sep - Dec 2018)

Tutor

- Conducted weekly collaborative learning sessions of a 50-people group for the course Introduction to Electrical and Computer Engineering

Projects

More projects online at <http://yuhanx.com>

DeepNightmare (<https://github.com/mira-murali/deep-nightmare>)

- Implemented the DeepDream algorithm using a ResNet architecture trained on a customized dataset of 3K "scary"/"not-scary" images, to create vivid horror images for an Art project
- Integrated an interactive interface for users to interact with trained images

Pet Adoption Prediction(ongoing)

- Analyzed 50K data using weka and discover imbalance in data clusters using K-nearest neighbors
- Implementing a fused model integrating text, photo/video models with strong and weak classifiers on numerical data

Labellmg

- Created the batch deletion method to speed up labelling, which improved the average annotation speed from 0.005 FPS to 0.02 FPS
- Configured keyboard shortcuts for controlling label boxes on sample images

Transit (<https://github.com/yuhanx0728/Transit>)

- A Google Home Action that enables users to check when the bus is coming, using Flask, Python, Dialogflow, Public Transport API, ngrok and Heroku

Leadership

Institute of Electrical and Electronics Engineers(IEEE), CMU Chapter

Vice President

- Spearheaded the planning process for various student events, holding the majority of the student events under ECE department
- Streamlined organization workflow and optimized team structure

Education

Carnegie Mellon University

(2017-2021)

B.S. in Electrical and

Computer Engineering

Minor in Computer Science

Skills

Proficient: Python, C

Familiar:

C++, HTML/CSS, JavaScript,

Unix/Linux, Arduino

Contact

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Coursework

Computer Systems

Data Structures/Algorithms

Calculus/Matrices/Probability