

Raymond Y. Xu

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Education

Cornell University, College of Engineering, Ithaca, NY

Master of Engineering in Electrical and Computer Engineering

2018

Bachelor of Science in Electrical and Computer Engineering

2017

Experience

Founder

April 2020 - Present

Denread — Remote

- Built chrome extension, Denread, allows users to click a website paragraph to drop down similar web text.
- Useful for sourcing news, finding research articles, web research.
- Managed one summer intern. Conducted codebase walkthroughs, algorithm discussions.
- Universal sentence encoder & approximate nearest neighbor search for NLP feature comparison.
- Pure JS frontend, django and simple tensorflow serving backend, hosted on Google Cloud Platform (GCP).

Machine Learning Engineer: Perception

July 2018 - May 2020

Johns Hopkins Applied Physics Lab — Laurel, MD

- Worked on small teams on Navy research contracts related to imaging software and visual based navigation.
- Led an internal research project to capture underwater images and extract depth information.
- Created a orientation prediction network, predicting which way boats were facing based on images of them.
- Designing and improving web and offline auto-annotation tools for detection, segmentation, and orientation.
- Built detection systems for boats in long range infrared imagery in C++, training models in tensorflow.

Master of Engineering Design Project: Machine Learning

August 2017 - May 2018

Sabuncu Lab — Cornell University

- Sabuncu Lab worked to improve the speed of MRI acquisition.
- Helped by achieving image registration of 3D brain MRIs using feature comparison in a siamese neural network.

Machine Learning Intern

December 2017 - January 2018

Expedition Technology — Sterling, VA

- Improved specialized TensorFlow networks to classify radar emitters from 1D chirp signals.

Skills

Machine Learning, Python, Tensorflow, Convolutional Neural Networks, Natural Language Processing, C++, Javascript, Django, Bash, Linux, GCP

Personal Interests

Political Activism: Tech for Campaigns, calls, door knocking during election cycles

July 2018 - Present

Classical Guitar: Performed at Cornell's 13th President inauguration faculty reception, Cornell Perkins Prize

Other: Radio show hosting, Recreational intramural sports