

# Raymond Y. Xu

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## Education

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**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

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### 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.
- 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.
- Achieved 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.

## Personal Interests

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

July 2018 - Present

**Classical Guitar:** Performed at Cornell's 13<sup>th</sup> President inauguration faculty reception, Cornell Perkins Prize

**Other:** Radio show hosting, Recreational intramural sports