

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

Machine Learning Software Engineer

October 2020 - Present

Google — Kirkland, WA / Remote

- Document AI team, developing NLP machine learning algorithms for analyzing text on forms and other documents.

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 Perception Engineer

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.

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