

Raymond Y. Xu

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Skills

Machine Learning, Python, Tensorflow, NLP, CNNs, C++, Bash, Linux

Technical Experience

Machine Learning Software Engineer

Google — Mountain View

May 2022 - Present

- On Google assistant NLP team for language parsing improvement on voice commands.
- Improved large language BERT model embeddings for understanding similar queries on new text parses.
- Created ML pipelines for running experiments for new model features.

Google — Kirkland, WA / Remote

October 2020 - May 2022

- On the Document AI product team, developing NLP products for analyzing text on forms and other documents.
- Primary work was on ML entity extraction, ML infrastructure and testing.
- Pretrained BiLSTMs on big data for improved performance using spatial features on invoices.
- Improved automation for machine learning training pipelines through scripting.
- Brainstormed and conducted experiments to improve fine tuning and tokenization elements of the modeling pipeline.

Founder

April 2020 - October 2020

Denread — Remote at Antler Incubator

- Built chrome extension, Denread, allows users to click a website paragraph to drop down similar web text.
- Universal sentence encoder & approximate nearest neighbor search for NLP feature comparison.

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.

Other Experience

Volunteer Program Manager

October 2020 - March 2021

Humanity Forward — Part Time, Remote

- Coordinating calls voters for political candidates and calls to small businesses for petitions.

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

Personal Interests

Political Activism: Calls, door knocking during election cycles

July 2018 - Present

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

Rap: I rap & make rap music, here is my [Spotify artist page](#)