

Anna Yang

Stanford University | B.S. in Symbolic Systems - Artificial Intelligence, Minor in Music | 2020

Work and Project Experience

2019.01 - 2019.09 **Software Engineering Intern**

Promethium

- Designed and created a custom Alexa skill for the company using AWS Lambda, Amazon SES, NLP techniques, and Python.
- Conducted research into word embeddings, implemented a USE model built on Flask, and combined the model with a questions database using DynamoDB to create an end-to-end question similarity ranking algorithm. Decreased runtime of chosen model to less than 400 milliseconds for better user experience of the product.
- Worked with backend team to choose and ingest JSON data models using MySQL and Oracle.

2019.03 - 2019.06 **Twitter Tells All About the 2020 US Presidential Candidates**

CS 224U Final Project

- Created algorithm to rank the top 2020 U.S. presidential candidates and scraped 38,000+ tweets for the project.
- Conducted content analysis using tf-idf to determine the most relevant political topics, and then conducted sentiment analysis on the tweets using a deep learning classification model.
- Expanded on project in CS224N, exploring whether a deep learning model can self-generate tweets that embody the moral foundations of Democrats and Republicans.

2018.09 - 2018.12 **Going Places: Modeling a Public Transportation System using Reinforcement Learning**

CS 238 Final Project

- Worked with 2 other students on a project aimed to develop a public transportation design algorithm.
- Used OSMnx to model San Francisco intersections onto a graph model, and implemented K-means and Q learning to determine ideal stations along with the best policy from any intersection to each station.

2018.09 - 2019.01 **Media Intern Team Leader and Editor**

SnackFever

- Led content strategy for the company blog. Wrote and edited blog posts promoting the products to improve engagement and attract potential customers, while managing a team of 4 other interns to ensure timely completion of their idea submissions and posts for the blog.
- Designed a system on Google Sheets to keep track of 300+ blog post releases, social media caption ideas, and publication times.

2016.09 - 2018.06 **Terman Undergraduate Research Assistant**

Stanford University Biology Department

- Investigated the influence of fungal competition on carbon and nitrogen trading in ectomycorrhizal mutualism.
- Utilized R to analyze enrichment data of different plant tissues through averaging and graphing.

Extracurriculars

Stanford University

- Taiwanese Cultural Society - *Marketing Team 2017-2018, Marketing Chair 2018-2019*
 - Worked cross-functionally with a team of 5+ students to increase attendance at TCS Annual Night Market by over 300% from 2017 to 2019
- Alpha Chi Omega - Zeta Iota Chapter
- Symphony Orchestra, Philharmonia - *Social Chair, Leadership Committee*

Personal Info

Location

Bay Area

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LinkedIn

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Relevant Courses

(Current) Independent Study on Decision Making Rationales and Medical Bots (Jeff Shrager - Symbolic Systems AI)

(Current) Independent Work on how Digital Tools can Improve Self-Tracking Practices (James Landay - Computer Science HCI)

(Current) Hacking the Pandemic

Natural Language Processing with Deep Learning

Design and Analysis of Algorithms

Natural Language Understanding

Artificial Intelligence: Principles and Techniques

Decision Making Under Uncertainty

Cognition in Interactive Design

From Languages to Information

Skills

Software (proficient in): Python, Git, Linux, AWS (Lambda, DynamoDB), Latex

Software (experience with): C++, AWS (SES), Java, Unity, C

Digital advertising, market research, partnerships

Interests (currently learning): HTML, CSS, SQL, React

Languages: English (native), Mandarin (advanced), Japanese (intermediate), Spanish (beginner), Korean (beginner)