

Anthony Jiang

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Education

Yale University

BS Computer Science/Econ, graduating May 2023

- > Coursework: Data Structures/Intro Algorithms, Discrete Math, Vector Analysis/Linear Algebra, Intensive algorithms, Systems Programming

GPA: 3.7
New Haven, CT

Work Experience

OpsRamp

Sept 2020 - Jan 2021

AI Engineering Intern (Full Time)

San Jose, CA (remote)

- > Implemented, fine-tuned, and profiled multiple NLP methods for text-classification including traditional sequential classification techniques as well as Encoder/Decoder models.
- > Independently designed and implemented flexible, end-to-end NLP grid-search, analysis, and visualization API in python and bash.
- > Proposed and implemented k-means classifier for pipeline preprocessing.
- > Participated in Agile development team with daily scrums, wrote extensive internal documentation, presented engineering update at all-hands company meeting in October.

Yale Tech for Conservation Lab

Jan 2020 - Present

Machine Learning Research Assistant, PI: Professor Aaron Dollar

New Haven, CT

- > Built pipelines for variety of PyTorch Mask-RCNN, SVM, and PCA classifiers presented at the September Yale ML in Botany workshop, coauthoring upcoming 2021 paper.
- > Implemented, fine-tuned ResNets in Tensorflow2 to classify the reproductive status of Herbarium samples with >95% accuracy using a custom confidence metric.
- > Customized Detectron2 Mask-RCNN to segment fossilized leaves for the Peabody Museum.

Awesomemath Summer Program

Jun 2019 - Aug 2019

Olympiad Math Teaching Assistant

Ithaca, NY and Tacoma, WA

- > Managed four classes of 40 Olympiad combinatorics and algebra students.
- > Led problem sessions, directed office hours, answered student questions.
- > Graded papers submitted by 150 students and provided extensive feedback on their work.

Activities

Urban Philanthropic Fund

Sep 2019 - Present

Business TMT Head

- > Leads analysis, modeling, and pitching industrial stocks for \$70k portfolio, generating returns that have financed over \$5,000 in grants to local New Haven Nonprofits.

Design for America

Sep 2019 - May 2020

New Haven Reads Partner

- > Using Human-Centered Design to overhaul training materials, recruitment campaigns, and media kit at New Haven Reads, a community book bank.

Projects

Spotify playlist generator

November 2020 - Present

- > Using Spotify API and the lowest variance components of PCA to classify playlists and recommend songs fitting the theme of the playlist.

Birdshot Email Templater

August 2020- Present

- > Using Flask and SQL to build lightweight email template management interface to automate semi-customised email campaigns.

Skills

- > **Languages:** Python, C/C++, Java, Bash, SQL, Javascript
- > **Frameworks/Tools:** Tensorflow, Pandas/Numpy, Flask, git, Docker, Excel, Postgres, Heroku, AWS
- > **ML Techniques:** CNNs, RNNs, LSTMs, Encoder-Decoder, BERT, PCA, K-means

Recognition

- > 2021 ICONIQ Growth Stock Pitch Competition (IGSPC) winner
- > Ranked Top 500 out of over 4,000 participants on the 2019 Putnam Exam, the premier undergraduate mathematics competition
- > 2017 Intel ISEF finalist in Energy: Physical category
- > \$20,000 2019 O'Donnell Foundation Young Masters AP Arts scholarship winner
- > 2016 USAJMO (USA Junior Math Olympiad) qualifier