Anthony Jiang

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🎓 Education

Yale University
GPA: 3.7
BS Math/Computer Science, graduating May 2023
New Haven, CT
> Coursework: Data Structures/Intro Algorithms, Discrete Math, Vector Analysis/Linear Algebra, Intensive algorithms (Spring 2021), Systems Programming (Spring 2021)

📈 Work Experience

OpsRamp
Sept 2020 - Jan 2021
AI Engineering Intern
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 $60k 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, Java, Bash/Unix, SQL
> **Frameworks/Tools:** Tensorflow, Pandas/Numpy, Flask, git, Docker, Excel, Postgres, Heroku, AWS
> **ML Techniques:** CNNs, RNNs, LSTMs, Encoder-Decoder, BERT, PCA, K-means

🏆 Recognition

> **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