Anthony Jiang

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🎓 Education

Yale University
GPA: 3.83
BS Computer Science/Econ, graduating May 2023
New Haven, CT
> Coursework: Intensive algorithms, Systems Programming, Networking systems, Vector Analysis/Linear Algebra, Data Structures, Discrete Math

📈 Work Experience

SESCO Enterprises
Jun 2021 - Aug 2021
Software Engineering/Quant Developer Intern
Pittsburgh, PA
> Implemented simulation framework to backtest novel graph-based auction strategies for the MISO FTR auction in python and nim, generating projected 28% excess returns.
> Designed performant backend, data schema, and data pipeline using MongoDB with Redis caching to reduce backtest time by 80% while halving memory usage
> Led integration of other intern's statistical pipeline work into simulation framework via internal API

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, reducing parameter tuning time by over 80% for a new architecture.

Yale Tech for Conservation Lab
Jan 2020 - Present
Machine Learning Research Assistant, PI: Professor Aaron Dollar
New Haven, CT
> Implemented, fine-tuned ResNets in Tensorflow2 to classify the reproductive status of Herbarium samples with >95% accuracy using a custom confidence metric, abstract accepted at TDWG conference; coauthoring upcoming 2021 paper.
> Developed and maintained variety PyTorch Mask-RCNN, SVM, and PCA classifiers, accepted at the 2021 Yale ML in Botany conference
> Deployed data visualization dashboard in streamlit and heroku, using AWS S3 backend

🌐 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.

Yale Computer Science Society
Sep 2020 - Present
Events team member
> Organized and advertised a quantum computing seminar for Yale CS community, with dozens of Yale affiliates in attendance

✒ 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++, Nim, Java, Bash, SQL
> **Frameworks/Tools:** Tensorflow, Pandas/Numpy, Flask, git, Excel, MongoDB, Redis, Heroku, AWS
> **ML Techniques:** CNNs, RNNs, LSTMs, Encoder-Decoder, BERT, PCA, K-means

🏆 Recognition

> 2021 ICONIQ Growth Stock Pitch Competition (IGSPC) winner
> top 500 out of over 4,000 participants on the 2019 Putnam Exam, the premier undergraduate mathematics competition
> $20,000 2019 O'Donnell Foundation Young Masters AP Arts scholarship winner