Anthony Jiang

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🎓 Education

Yale University   GPA: 3.83
BS Computer Science, graduating May 2023   *New Haven, CT*

> Coursework: Intensive algorithms, Cryptography, Systems Programming, Networking systems, Vector Analysis, Data Structures, Discrete Math, Probability Theory

📊 Experience

Meta   May 2022 - Current
SWE Intern, FB iOS Messaging Client Infra   *Menlo Park, CA*

> Designed and implemented migration of FB's iOS Messaging Link Preview (1.09 Million hits/day) in Obj-C++ to a SQL-based messaging framework, producing 23% latency wins in public testing
> Led collaboration with Messenger and Infra to implement SQL schema changes and backend data fetch upgrades for legacy link scraping code

Yale CPSC 433 Computer Networking   Jan 2022 - May 2022
Undergraduate Learning Assistant (ULA)

> ULA for 50-person 4th-year CS elective, wrote and graded midterm and final long-answer questions, led weekly office hours, ran exam review sessions

SESCO Enterprises   Jun 2021 - Aug 2021
SDE/Quant Developer Intern, Electricity Futures Desk   *Pittsburgh, PA*

> Designed and implemented simulation framework to backtest novel graph-based auction strategies for the MISO FTR auction in python and nim, generating projected 14% returns.
> Designed and implemented 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

Yale Tech for Conservation Lab   Jan 2020 - December 2021
ML Research Assistant, PI: Aaron Dollar   *New Haven, CT*

> Implemented ResNets in Tensorflow2 to classify the reproductive status of Herbarium samples with >95% accuracy, conference paper accepted at 2021 Biodiversity Information Standards (TDWG) conference
> Developed Mask-RCNN, SVM, and PCA classifier pipelines for segmenting 110,000 images

OpsRamp   Sept 2020 - Jan 2021
Data Engineering Intern, Alert Correlation   *San Jose, CA (remote)*

> Implemented and profiled multiple NLP techniques for classification of machine log alerts
> Designed and implemented grid-search, analysis, and visualization API in python and bash, reducing parameter tuning time by over 80%

🥧 Activities

Yale CS Department Student Advisory Council (DSAC)   May 2022 - Aug 2022
Board Member

> Leading initiative for creating paid upperclassmen mentor/department liaison positions to improve advising for >200 underclassmen

Yale Computer Science Society   January 2021 - May 2022
Events team member

> Organized and sponsored speaker events with IBM Q Developer Advocates for Yale CS community
> Contributed calendar patches to Coursetable, a student-run class selection service for undergraduates

Urban Philanthropic Fund   Sep 2019 - December 2021
Business-facing Tech Head

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

✍ Projects

Multipath TCP   November - December 2021
> Implementing Multipath TCP (RFC 6824) as a final project for Networking systems in Java.

Image Labeling and Inference Pipeline   January 2021
> Built image labeling, inference, and performance aggregation pipeline in python deployed on Heroku, AWS, and Yale HPC clusters for YTFC Lab

⚙ Skills

> **Languages:** Python, Java, C, C++, Obj-C, Go, Bash, SQL, PHP, Nim, Scheme
> **Frameworks/Tools:** MongoDB, Redis, AWS S3, GraphQL, Tensorflow, Pandas/Numpy, Flask, SLURM, git, mercurial
> **Hobbies/Clubs:** Design for America, Silliman Activities & Administration Council, Hiking, Photography, Cooking

🏆 Recognition

> 2021 ICONIQ Growth Stock Pitch Competition (IGSPC) winner
> 2019 Putnam Exam top 500, the premier undergraduate mathematics competition