

Benjamin Yang

Education

Rutgers University Honors College - May 2020

B.S. in Computer Science, Mathematics, Cognitive Science; Minor in Astrophysics | GPA: **3.93** / 4.0
Dean's List | Road to Wall Street | SAS Excellence

Coursework > [Schedule](#)

Undergrad: Data Structures, Algorithms, AI, Operating Systems, Distributed Systems, Probability

Grad: NLP, Time Series Analysis, Algorithms I, Theory of Statistics, Neurorehabilitation Robotics, Formal Language

Certificates: Coursera Deep Learning Specialization

Skills

Programming

Proficient: Python, Java, C/C++, J, Go, JavaScript

Learning: R, Swift, Android, Bash

Frameworks

Proficient: Django, Flask, ReactJS, SQL

Learning: MongoDB, Angular, Tensorflow, SciKit, Keras

Tools

Proficient: Git, Docker, Linux, Jupyter, Shell, VIM

Learning: AWS, Bloomberg, Unity, Heroku, VBA, D3.js

Projects

SimPrints Chrome Ext / WebApp > [About](#) > Summer 2018

- Built Chrome extension for SimPrints third-party identification software using Vue.js and android scanner
- Integrated extension w/ hacked Bluetooth Vero API Kit

District Attorney's Office of NY > [About](#) > Summer 2018

- Developed parsing script with a team of four other fellows to translate PDF data into CSV format
- Held weekly SCRUM meetings and sprints with clients to ensure the project met constantly updating scopes
- Learned PyTesseract, Pillow, Wand, and optical character recognition python libraries to parse PDF data

Graduate Work + Research > Spring 2018

- Synthesized different Kaggle and offline datasets to train an LSTM-based RNN that predicts and suggests a rhyme given the input of another on existing rap lyrics
- Used Unity and 2-D Anima to build a working model of inverse kinematics for a 2-legged walking dog, wrote research paper on the benefits of neurorehabilitation
- Simulated a hydrophobic-hydrophilic model of Protein Folding using a modified Gibbs Energy eqn. in Java

IDEA x Worldbuilding > [Github](#) > Summer 2018

- Built an animated prototype of comic book Whitepaper by artist Tony Patrick in Unity, with sliders, shading, glitter, and zoom effects on all 40+ panels / covers

github: [benplus1](#)

linkedin: [/in/bentyang](#)

website: [benyang.me](#)

email: [yang.benjamin1998@gmail.com](#)

Experience

MakeSpace | Platform \ Software Engineer > [About](#) > Summer 2018

- Developed Item Tagging Widget using **Computer Vision** and Machine Learning APIs like **Amazon Rekognition** & Google Cloud Vision
- Created in-house ML model to tag **~1 million** photographs of stored items
- Wrote **data analysis report** on the volume and type of stored items using data visualization software (**D3.js**, etc.)

XLP Capital | Software Engineer > [About](#) > March 2018 - Present

- Implemented data source integrations (loading and analysis) for Interactive Brokers, **Bloomberg**, CCXT, Quandl **finance APIs**
- Developed trading platform GUI in J, allowing for resizing, tabbing, Excel functionality and handling of **2GB sized data** using JQT Framework
- Wrote **three trading algorithms** for trading NYSE equities & cryptocurrencies, algorithms that are still in development

Metropolitan Life | Investments IT Engineer > [About](#) > Summer 2017

- Developed **Go Multithreading** Tester App that stress tests MetLife databases for correct multithreading and functionality
- Worked with **MongoDB** and Java to develop automated derivative transaction builder and library for **millions** of transactions
- Used Python to download & sort **100GB+** US agricultural and climate data

Leadership

CS First-Year Interest Group Seminar | Instructor > [About](#) > Fall 2018

- One of **80** undergraduates teaching my own accredited college course.
- Deliver **10** original, activity-based lesson plans to diverse group of **25** first-years as the sole instructor for **Exploring Computer Science**.

Outreach Director / VP | Rutgers CS > [About](#) > Fall 2016 - Present

- Building a strong Rutgers tech community by establishing **monthly speaker series** with 10+ speakers reaching a **300+ student audience**
- Running **RUnite CS** Ambassadors with **15** trained student developers, visiting **20+** middle and high **schools**, reaching **~1500 students**
- Collaborating with the CS department to improve recruitment efforts, community spaces, professional development, alumni relations, etc.

President | Quantitative Finance Club > [About](#) > Winter 2017 - Present

- Orchestrated and taught advanced **14 technical presentations** involving trading models, finance, Black-Scholes & computer science theory
- Mentored **100+ members** regarding technical and practical knowledge for interviews and career search in addition to weekly mock interviews
- Maintained relationships with **40+ alumni** community, **speaker network**

Veterans 4 Warriors PM | Rutgers Enactus > [About](#) > Fall 2017 - Present

- Worked with team of student entrepreneurs to coordinate intensive **ambassador** program for marketing and awareness of **Veterans' health**
- Built relationships with **20+ student** and administrative **organizations**
- Planned Veterans events, tabling activities, and social events with clients

Other Involvements & Activities

RU STEM x Arts > **Math & Design Chair** > Fall 2017 - Present

Petey Greene > **Tutor at Edna Mahan Correctional Facility** > Fall 2018 - Present

HackRU > **Finance & Research / Development Teams** > Fall 2016 - Present