

# Benjamin T. Yang

6 Brunelleschi Court, Monmouth Junction, NJ 08852 | (609) 356-8275

## Education

### Rutgers University Honors College - May 2020

B.S. in [Computer Science](#), [Mathematics](#), [Cognitive Science](#);  
GPA: 3.9 / 4.0 | SAT: 2350 / 2400 | Dean's List All Semesters  
[Cap & Skull](#) (Top 18 @ Rutgers Uni.) | Road to Wall Street

### Coursework > [Transcript](#)

**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, EDX MITx Quantum Information Science II - States, Noises, etc.

## 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 a 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

## Skills

### Programming Languages

**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

**Github:** [benplus1](#)

**Linkedin:** [/in/bentyang](#)

**Website:** [benyang.me](#)

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

## Work Experience

### Datadog | Software Engineering Intern > [About](#) > Summer 2019

- Developed a Python service to aggregate **millions of notifications and data** processed per second for Slack, Email, and HipChat
- Worked with Kubernetes, Cassandra, Kafka, Spinnaker, and other containerization / data wrangling tools to deploy services
- Demoed relevant projects @ **AWS Summit** and **DashCon** for Datadog

### 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

## Leadership Experience

### 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 **RUnit 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 **14** advanced **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 a 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

[Research Assistant](#) > Language Acquisition and Processing Lab > May 2017 - Present

**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