

Bianca Yang

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Keep up with me on my blog: <https://xrdt.github.io>

Education:

Caltech — Computer Science

June 2019 (Expected)

Overview:

A dedicated software engineering with broad professional and academic experience that includes:

- Building a smarter GPU scheduler for distributed training of machine learning jobs
- Surveying multi-task reinforcement learning algorithms in Mujoco environment
- Building a custom distributed machine learning system using AWS EC2 and EFS
- Developing an AI toolkit to discover behavioral finance signals that can predict market returns
- Managing a \$750k endowment using quantitative and fundamental strategies
- Expanding online retail businesses into international markets through Amazon FBA
- Developing a machine learning model to detect voter fraud in the state of Florida

Experiences:

Cloud + AI Software Engineering Intern, Microsoft

Jul 2018 - Sept 2018

- Worked to improve scheduling times and monitoring of distributed GPU system for deep learning jobs.
- Introduced blacklisting to prevent jobs from being repeatedly attempting to schedule against unusable nodes.
- Improved resource utilization and machine status tracking in our service's web portal.

Machine Learning Researcher, Caltech CS159 Course

March 2018 - June 2018

- Evaluated various network architectures for multi-task reinforcement learning of variants on inverted cartpole/pendulum with A3C as the baseline algorithm. Read our report [here](#).

Machine Learning Consultant, Virtualities

Jan 2017 - June 2018

- Developed machine learning suite to improve efficiency of consulting projects.
- Created distributed grid search framework for faster training and evaluation of machine learning models.
- Tested machine learning functionality of the main application to prepare for the first beta release.

Co-President and Board Member, Caltech Student Investment Fund

Oct 2015 - June 2018

- Wrote value investing based [curriculum](#) to prepare fund members to manage \$750K endowment.
- Manage annual disbursements and arrange annual speaker series.

eCommerce Marketing Manager, Efficient Living

Jun 2015 - Dec 2017

- Expanded business into Japan through [Fulfillment by Amazon](#) and managed [digital marketing campaign](#) to drive sales.
- Launched online retail business for [whiskey lovers](#).

Quantitative Research Associate, Fuller & Thaler Asset Management

Jul 2017 - Sept 2017

- Created natural language processing algorithm to analyze financial news and SEC filings to improve returns.