

Bianca Yang

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

Education:

Caltech — Computer Science and Business, Economics, and Management

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

Experiences:

Cloud + AI Software Engineering Intern, Microsoft

Jul 2018 - Present

- Building a smarter and faster GPU cluster scheduler on top of Hadoop YARN architecture.
- Rewriting job submission and tracking portal using Angular and Typescript on the [asp.net](https://angular.io/) framework.

Machine Learning Consultant, Virtualities

Jan 2017 - June 2018

- Developed a machine learning suite for a virtual reality data visualization platform to improve automatically generated insights and efficiency of consulting projects.
- Created distributed grid search framework to allow more efficient 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.

Machine Learning Researcher, Caltech CS101 Course

Sep 2016 - Dec 2016

- Developed a machine learning framework to detect voter fraud in voter registration data.