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**
- 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 Consultant, Virtualitics   **Jan 2017 - June 2018**
- Developed a machine learning suite for a virtual reality data visualization platform 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.

Machine Learning Researcher, Caltech CS101 Course   **Sep 2016 - Dec 2016**
- Developed a machine learning framework to detect voter fraud in voter registration data.