

Justin Zhang

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Education

California Institute of Technology

2018 - Present

B.Sc. Computer Science and Business, Economics, Management (GPA: 4.1/4.3)

Skills

Proficient: Python, C++, Java, JavaScript

Familiar: data analysis and AI techniques

Libraries: Spark, Django, PostgreSQL, Elasticsearch, pandas

Work Experience

DRW

June 2021 - August 2021

Software Engineering

Created auto-quote responder as part of the trading platform. Technologies include Java, protobuf.

Citadel

February 2021 - April 2021

Software Engineering

Added querying features for marketdata API. Performed data analysis on market data to support migration of the marketdata pipeline. Technologies include C++, kdb, pandas.

Asana

June 2020 - September 2020

Web Development

Created web-based data visualizations to allow users to easily analyze usage data. Technologies include Elasticsearch, Scala, React.js.

Robinhood

June 2019 - September 2019

Data Engineering

Designed a model to detect high-risk option positions based on the binomial options pricing model. Technologies include Spark, Kafka, Airflow, S3, Hive, Presto, Looker.

Research Experience

Hand Detection in Video with Optical Flow using the Single-Shot MultiBox Detector

June 2017 - October 2017

Individual project under Professor Minh Hoai at Stony Brook University. Investigated modifications to the Single-Shot MultiBox Detector (SSD) to use motion data in hand detection.

Awards Received:

- Siemens Competition, Semifinalist, 2017
- Co-authored related *Contextual Attention for Hand Detection in the Wild* (ICCV 2019)

Other Awards

- 1st place, ICPC Southern California Regionals **February 2022**
- National finalist and camp qualifier, USA Computing Olympiad (USACO) **June 2016**
- AIME qualifier **March 2017**