

Tarini Singh

tarinisingh24@gmail.com • (440) 532-1041 • New York, NY

EDUCATION

California Institute of Technology

September 2017 – June 2021

- Bachelor of Science, Computer Science

WORK EXPERIENCE / PROJECTS

Bloomberg

August 2021 – current

Software Engineer, Fixed Income List Trading

- Designed and built a new end-to-end trading workflow for handling Chinese bonds in our system, including re-designing the trade entry UI in Javascript and implementing a new state machine in C++ to handle trade state and state transitions triggered by dealer/client negotiation.
- Gathered requirements and led development to add new trading workflow, including modifying seven C++ services as well as Javascript/TypeScript trade entry UI in React/Redux framework.
- Designed and implemented scalable and comprehensive integration testing infrastructures in Gherkin and Python that run on daily or weekly automated schedules.
- Built Humio dashboards to assist with service dependency analysis, track usage analytics of various products, and complete migration from Splunk dashboards
- **Designed and managed standalone intern project in Python/Javascript/React/Redux that was launched to Production**

Software Engineering Intern

June – August 2020

- Set up and analyzed the use of MacroBase, an open-source data analytics engine, to identify anomalies in request/response service time series data
- Created a stand-alone pipeline in Python with ability to explore, decompose and analyze time series data, along with hypertuning and fitting of ARIMA + STL model for time series forecasting and anomaly detection

TechReach (CS + Social Good Organization) Team

January – March 2020

- Used Python Flask to build a full-stack web application with a customized directory to allow members of a local media startup easily find and communicate with each other for collaboration purposes (python flask)
- Included a simple database to store user information using SQLite, and page design with HTML/CSS/Javascript