



# Smart Trading Platform for Cryptocurrency



## About the Client

The Client is a global trader having a profound knowledge in the areas of Economics and Finance, with a focus on Alternative Investments. He has expertise in Bitcoin & alternate cryptocurrencies and Exchange API & Trading automation.



## The Challenge

- ✓ Client required a scalable application to integrate 5 cryptocurrency exchanges located in different parts of the world.
- ✓ The application must be robust enough to pass millions of intra-day transactions across these cryptocurrency exchanges in milliseconds and run 24/7 smoothly.

## Solution

- ✓ The application needed an API connectivity with the sources, i.e., the cryptocurrency exchanges which were highly unreliable.
- ✓ The cryptocurrency exchanges were also highly unpredictable as rapid changes in the configurations took place without proper notification or alerts to the API.
- ✓ The price fluctuations in the cryptocurrency exchanges like Bitcoin should be compared with the price fluctuations of the fiat (legal) currency in the real time market like Yen for Japan, Euro for Europe, United States Dollar for the USA etc.
- ✓ Since, the cryptocurrency exchanges are relatively new in the market than the traditional stock market exchanges, testing and simulation was very difficult.
- ✓ Generally, in High Frequency Trading there are numerous strategies that can be adopted to make more money such as the HFT order flow prediction strategies. And, implementing the right kind of strategy as per the volatile market was technically cumbersome.
- ✓ We identified the target exchanges' APIs, response times and potential errors based on the historical data provided by the client.
- ✓ After a thorough inspection on the API compatibility and UI speed, we built the application on Python and React and hosted on Google Cloud Platform and Amazon Web Services.

## Outcome

- ✓ The application had a success rate of 89% where-in it could successfully trade per day with the desired strategies.
- ✓ The application could generate a dashboard and related reports featuring variables like - real-time market movements, sophisticated strategies and historical trades in-place in a readable format for the 5 of cryptocurrency exchanges operating globally.
- ✓ Moreover, the application could course correct in case of any unexpected circumstance and initiate fail safe mechanism during sharp price fluctuations so as to avoid damages.
- ✓

Do you want to empower your decision makers?

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