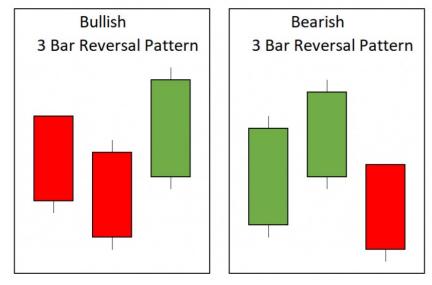
Computer Science Three Bar Pattern: A Web Application for Day Traders



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Motivation

Recognizing patterns, • such as the three-bar pattern, in stock graphs represents a major turning point in the market, which indicates



the best moment to invest

- Once a potential three-bar pattern is found, day traders • analyze and assess stock information to verify if the pattern is desired. This cumbersome process often results in them missing the golden 3-5 minutes window of opportunity
- Unfortunately, existing tools and websites provide incomplete analysis and often require a paid subscription

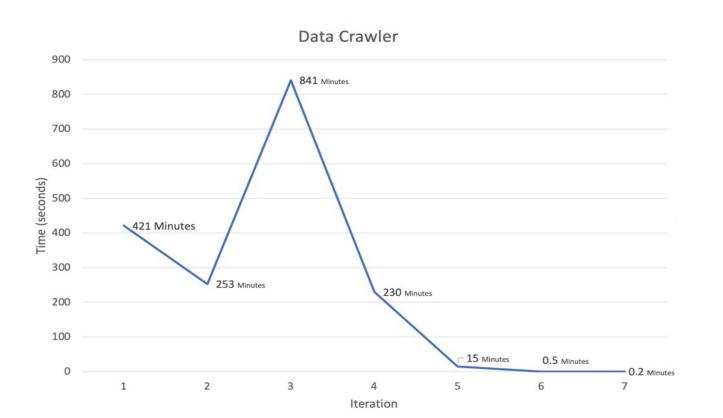
Backend Process

Data Crawler

Pull the historical and real time stock data including open, high, low, close, volume.

Improvement

- Function to preprocess stock data allows removing undesirable columns to reduce false positives.
- Asyncio enhances performance to speed up historical analysis, and to guarantee that traders are notified in real-time when a pattern is found.



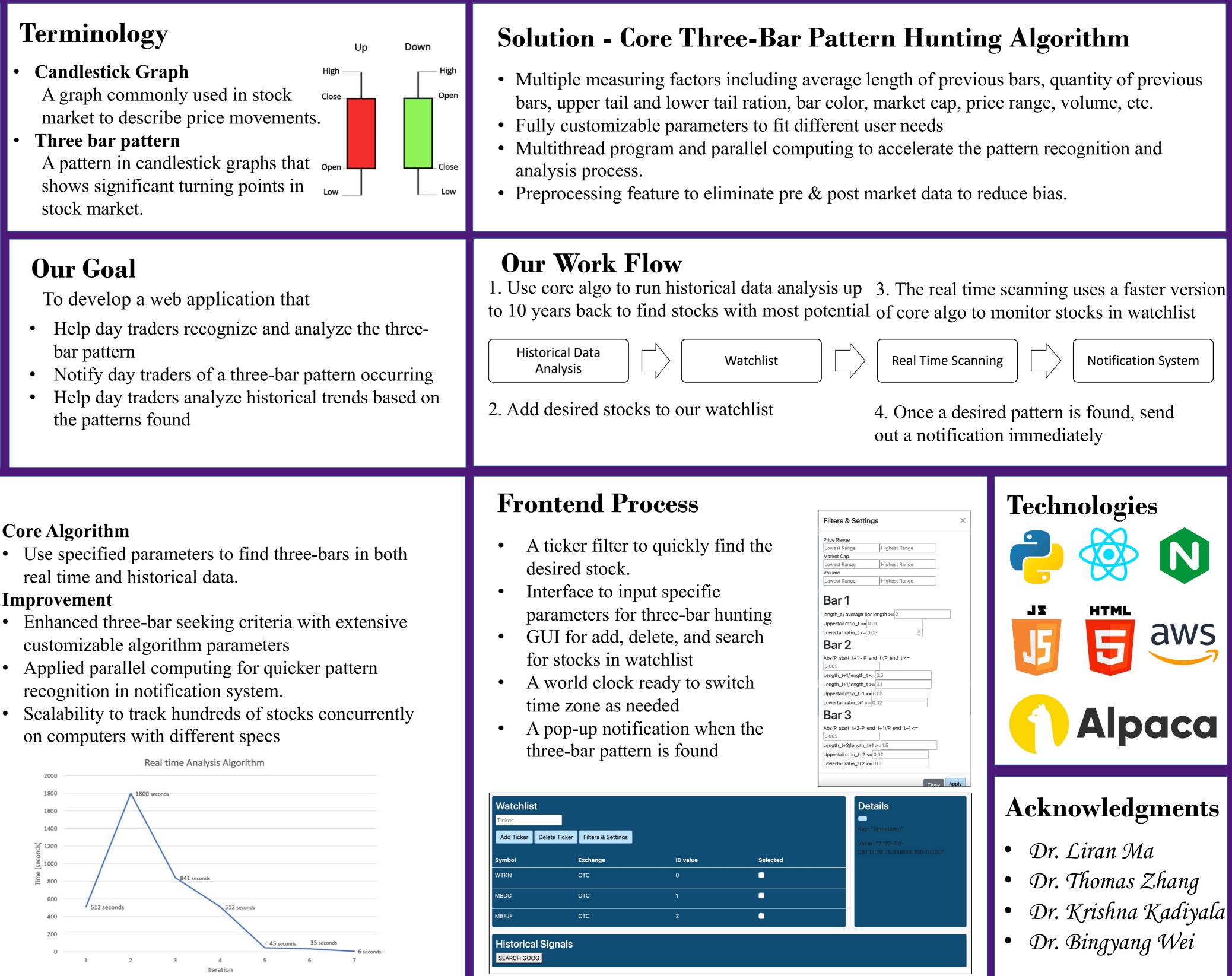
Terminology

- **Candlestick Graph**
- Three bar pattern stock market.

- bar pattern
- the patterns found

Core Algorithm

Improvement



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