SmartTick: Obscure Stock Analysis

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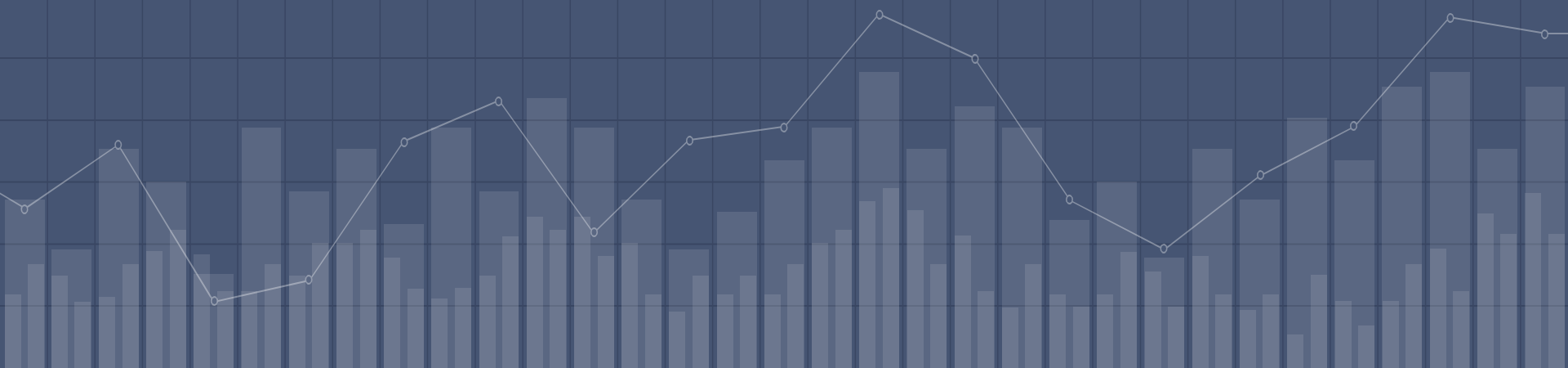# Motivation

- Build wealth for the future
- Get a different perspective on the market

Problem

- It can be difficult to learn about investing.
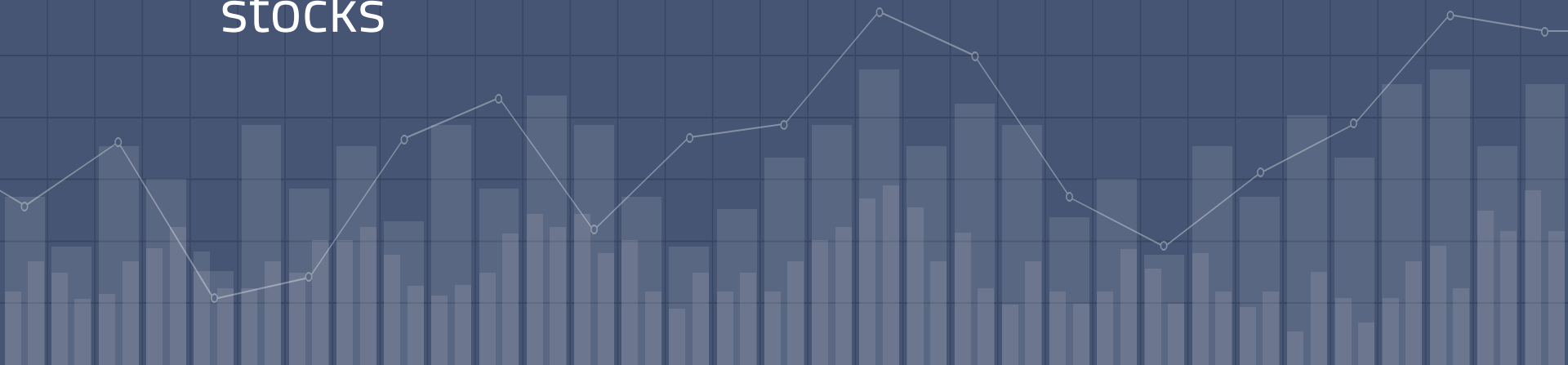- Figuring out an investment strategy is even harder.

Solution

- Politicians tend to have insight on what to trade given their policy making power
- Why not analyze how they invest?

Goals We Set Out For

- Display most recently published trades from politicians
- Analyze stocks with trade data and historical data
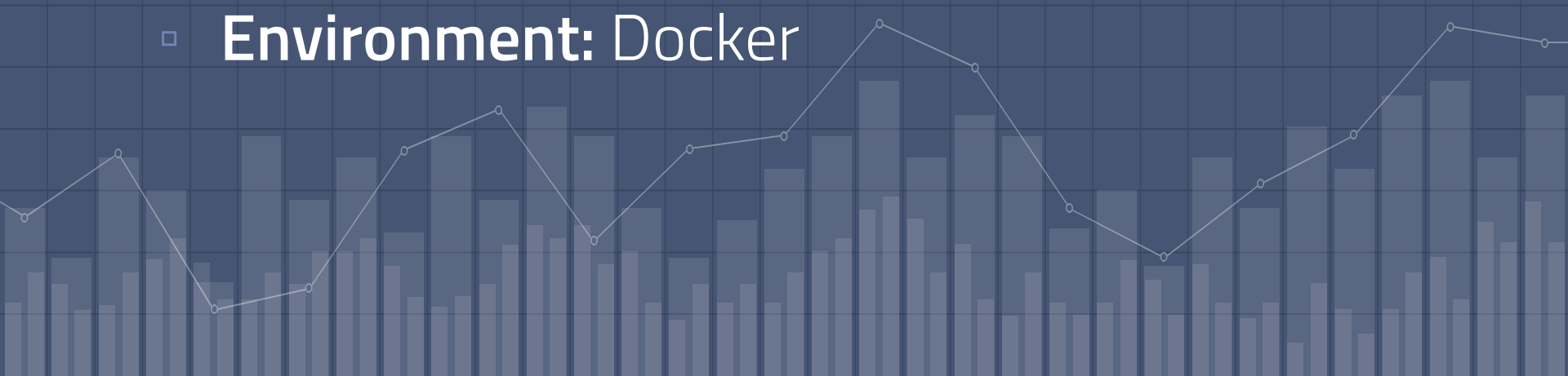- Receive notifications for followed politicians or stocks
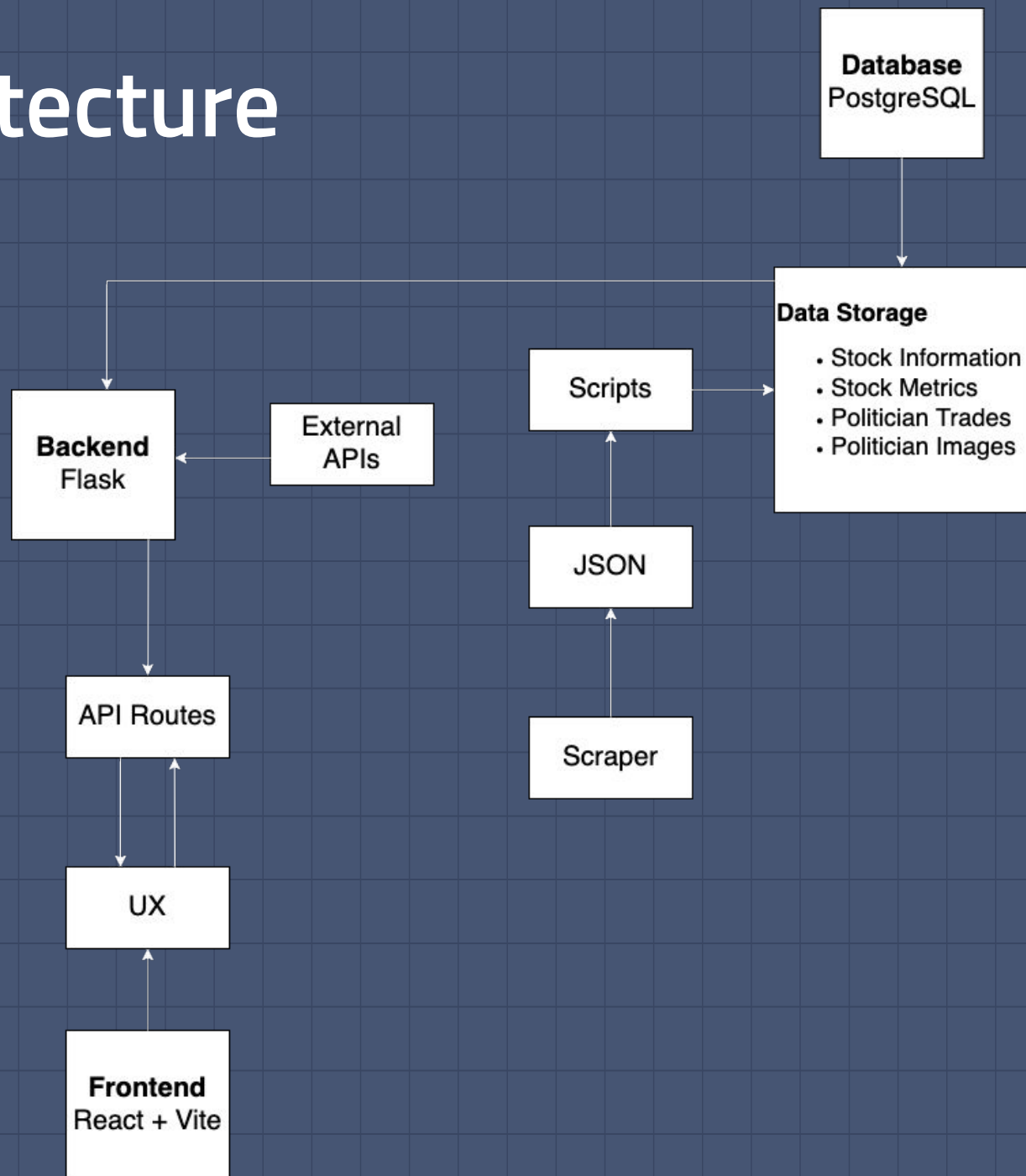
Goals We Achieved

- Recent politician trades table
- Leaderboards for politicians and stocks
- Display comprehensive stock data with analysis
- Profiles for Congress members

Demo

Technologies

- **Frontend:** React JS

- **Backend:** Flask

- **Database:** PostgreSQL

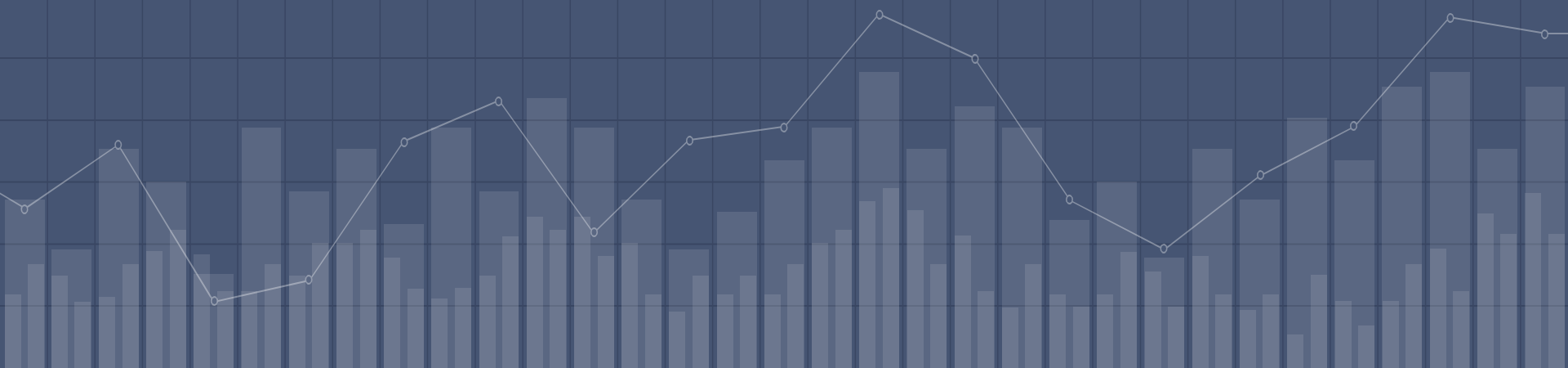- **Environment:** Docker

Architecture

Development Challenges

- API limitations
  - Our app is heavily dependent on API data
  - API data and rate limits led us to modify the release plan
- Debugging other people's code

Project Management Techniques

- Scrum board: Notion
- Scrum meetings in person
- Communication over Discord
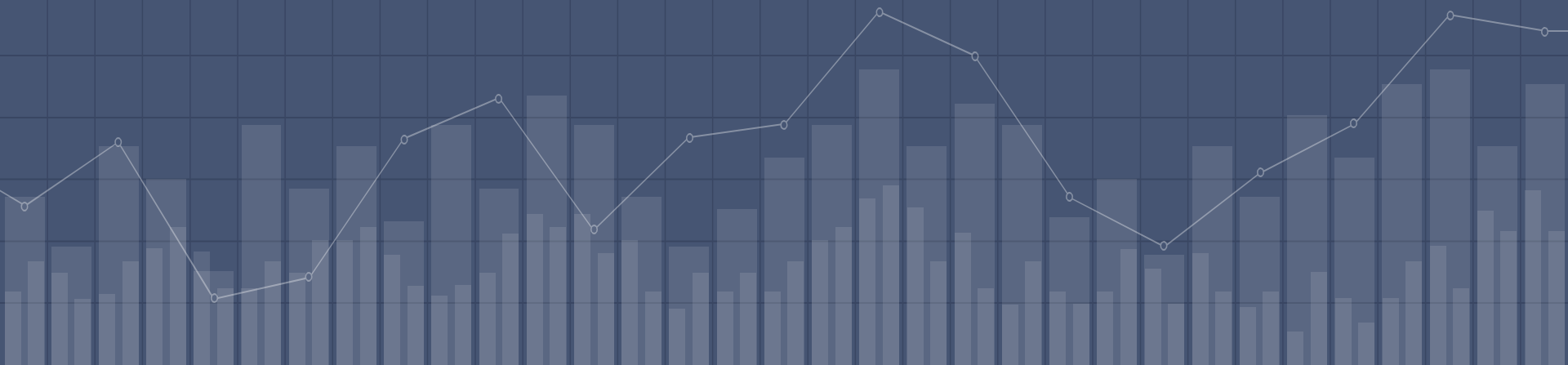- Github Feature Branches + Pull Requests

Things we

Enjoyed

- Learning about full-stack development
- Having clear short term goals
- Transparency with the team

Didn't Enjoy

- Lengthy planning
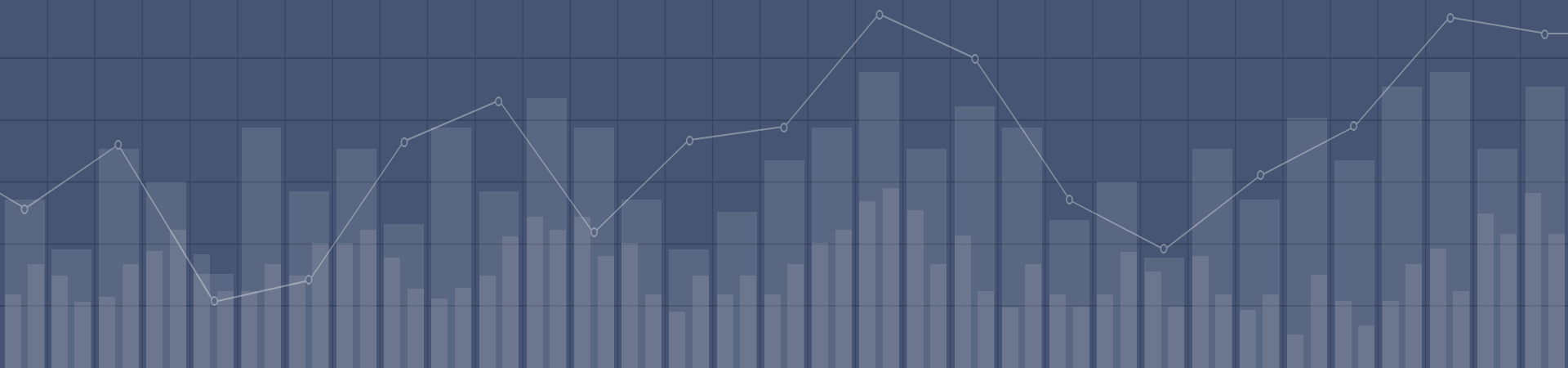- Creating documentation
- Pressure of timed sprints

Lessons Learned

What Worked

- Sprint planning and task assignment
- Collaboration on pull requests
- Utilizing feedback

What Didn't Work

- Not enough scrum meetings
- Vague user stories
- Inaccurate estimations of time commitment

Thank you.
Any questions?

Politician	Stock	Trade Type	Trade Date	Size	Price
Marjorie Taylor Gre	GLW:US	Buy	2025-05-14	1K-15K	$47.01
Marjorie Taylor Gre	GLW:US	Buy	2025-05-14	1K-15K	$47.01
Marjorie Taylor Gre	GLW:US	Buy	2025-05-05	1K-15K	$45.41

GLW Trading Records

Time	Side	Total Qty	Filled Qty	Avg Price	Amount
05/22/2025 16:21:47 ...	Buy	1	1	48.50	48.50

Politician	Stock	Trade Type	Trade Date	Size	Price
Marjorie Taylor Gre	UNH:US	Buy	2025-05-16	1K-15K	$291.91
Marjorie Taylor Gre	UNH:US	Buy	2025-05-16	1K-15K	$291.91
Marjorie Taylor Gre	UNH:US	Buy	2025-05-14	15K-50K	$308.01
Marjorie Taylor Gre	UNH:US	Buy	2025-05-14	15K-50K	$308.01

UNH $303.90
Unitedhealth Group +$0.70 (0.23%)

Overview Research **Positions**

Z23956099
INDIVIDUAL

Details

Total value	$303.89
Shares owned	1
Average cost	$302.30
Total gain/loss	+$1.59 (+0.52%)
Today's gain/loss	+$0.70 (+0.23%)

As of Jun-10-2025 10:35 a.m. ET