In [3]:

```
import yfinance as yf
import pandas as pd
import requests
from bs4 import BeautifulSoup
import plotly.graph_objects as go
from plotly.subplots import make_subplots
```

In [4]:

```
def make_graph(stock_data, revenue_data, stock):
    fig = make_subplots(rows=2, cols=1, shared_xaxes=True, subplot_titles=("Historical Share Price", "Historical Revenue"), verti
    fig.add_trace(go.Scatter(x=pd.to_datetime(stock_data.Date, infer_datetime_format=True), y=stock_data.Close.astype("float"), n
    fig.add_trace(go.Scatter(x=pd.to_datetime(revenue_data.Date, infer_datetime_format=True), y=revenue_data.Revenue.astype("floa
    fig.update_xaxes(title_text="Date", row=1, col=1)
    fig.update_xaxes(title_text="Date", row=2, col=1)
    fig.update_yaxes(title_text="Price ($US)", row=1, col=1)
    fig.update_yaxes(title_text="Revenue ($US Millions)", row=2, col=1)
    fig.update_layout(showlegend=False,
    height=900,
    title=stock,
    xaxis_rangeslider_visible=True)
    fig.show()
```

In [5]:

```
tesla = yf.Ticker('TSLA')
tesla_data = tesla.history(period="max")
tesla_data.reset_index(inplace=True)
tesla_data.head()
```

Out[5]:

	Date	Open	High	Low	Close	Volume	Dividends	Stock Splits
0	2010-06-29 00:00:00-04:00	1.266667	1.666667	1.169333	1.592667	281494500	0.0	0.0
1	2010-06-30 00:00:00-04:00	1.719333	2.028000	1.553333	1.588667	257806500	0.0	0.0
2	2010-07-01 00:00:00-04:00	1.666667	1.728000	1.351333	1.464000	123282000	0.0	0.0
3	2010-07-02 00:00:00-04:00	1.533333	1.540000	1.247333	1.280000	77097000	0.0	0.0
4	2010-07-06 00:00:00-04:00	1.333333	1.333333	1.055333	1.074000	103003500	0.0	0.0

In [6]:

```
url = 'https://www.macrotrends.net/stocks/charts/TSLA/tesla/revenue'
html_data = requests.get(url).text
soup = BeautifulSoup(html_data,"html5lib")
tesla_revenue = pd.DataFrame(columns=['Date', 'Revenue'])

for table in soup.find_all('table'):

    if ('Tesla Quarterly Revenue' in table.find('th').text):
        rows = table.find_all('tr')

        for row in rows:
            col = row.find_all('td')

            if col != []:
                date = col[0].text
                revenue = col[1].text.replace(',','').replace('$','')

                tesla_revenue = tesla_revenue.append({"Date":date, "Revenue":revenue}, ignore_index=True)
tesla_revenue
```

11	2019-12-31	7384
12	2019-09-30	6303
13	2019-06-30	6350
14	2019-03-31	4541
15	2018-12-31	7226
16	2018-09-30	6824
17	2018-06-30	4002
18	2018-03-31	3409
19	2017-12-31	3288
20	2017-09-30	2985
21	2017-06-30	2790
22	2017-03-31	2696
23	2016-12-31	2285

In [7]:
```
tesla_revenue = tesla_revenue[tesla_revenue['Revenue'].astype(bool)]
tesla_revenue.tail()
```

Out[7]:

	Date	Revenue
48	2010-09-30	31
49	2010-06-30	28
50	2010-03-31	21
52	2009-09-30	46
53	2009-06-30	27

In [8]:
```
gme = yf.Ticker('GME')
gme_data = gme.history(period='max')
gme_data.reset_index(inplace=True)
gme_data.head()
```

Out[8]:

	Date	Open	High	Low	Close	Volume	Dividends	Stock Splits
0	2002-02-13 00:00:00-05:00	1.620129	1.693350	1.603296	1.691667	76216000	0.0	0.0
1	2002-02-14 00:00:00-05:00	1.712707	1.716073	1.670626	1.683250	11021600	0.0	0.0
2	2002-02-15 00:00:00-05:00	1.683250	1.687458	1.658002	1.674834	8389600	0.0	0.0
3	2002-02-19 00:00:00-05:00	1.666418	1.666418	1.578047	1.607504	7410400	0.0	0.0
4	2002-02-20 00:00:00-05:00	1.615920	1.662209	1.603296	1.662209	6892800	0.0	0.0

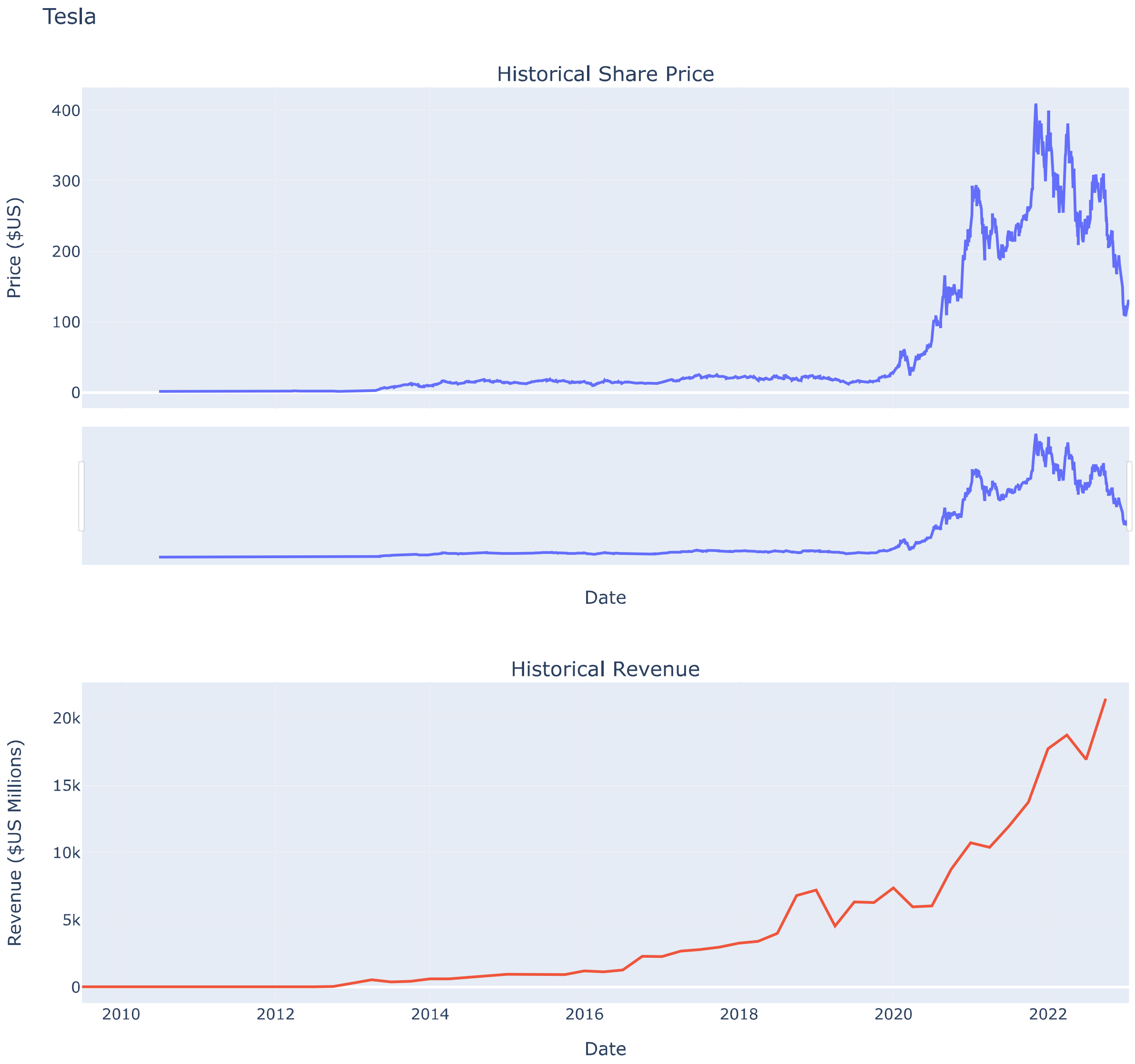
In [9]:
```
url = 'https://www.macrotrends.net/stocks/charts/GME/gamestop/revenue'
html_data = requests.get(url).text
soup = BeautifulSoup(html_data,"html5lib")
gme_revenue = pd.DataFrame(columns=['Date', 'Revenue'])
for table in soup.find_all('table'):

    if ('GameStop Quarterly Revenue' in table.find('th').text):
        rows = table.find_all('tr')

        for row in rows:
            col = row.find_all('td')

            if col != []:
                date = col[0].text
                revenue = col[1].text.replace(',','').replace('$','')

                gme_revenue = gme_revenue.append({"Date":date, "Revenue":revenue}, ignore_index=True)
gme_revenue.tail()
```

```
C:\Users\Kartik Rawal\AppData\Local\Temp\ipykernel_46456\1597722446.py:17: FutureWarning: The frame.append method is deprecat
ed and will be removed from pandas in a future version. Use pandas.concat instead.
  gme_revenue = gme_revenue.append({"Date":date, "Revenue":revenue}, ignore_index=True)
C:\Users\Kartik Rawal\AppData\Local\Temp\ipykernel_46456\1597722446.py:17: FutureWarning: The frame.append method is deprecat
ed and will be removed from pandas in a future version. Use pandas.concat instead.
  gme_revenue = gme_revenue.append({"Date":date, "Revenue":revenue}, ignore_index=True)
C:\Users\Kartik Rawal\AppData\Local\Temp\ipykernel_46456\1597722446.py:17: FutureWarning: The frame.append method is deprecat
ed and will be removed from pandas in a future version. Use pandas.concat instead.
  gme_revenue = gme_revenue.append({"Date":date, "Revenue":revenue}, ignore_index=True)
```

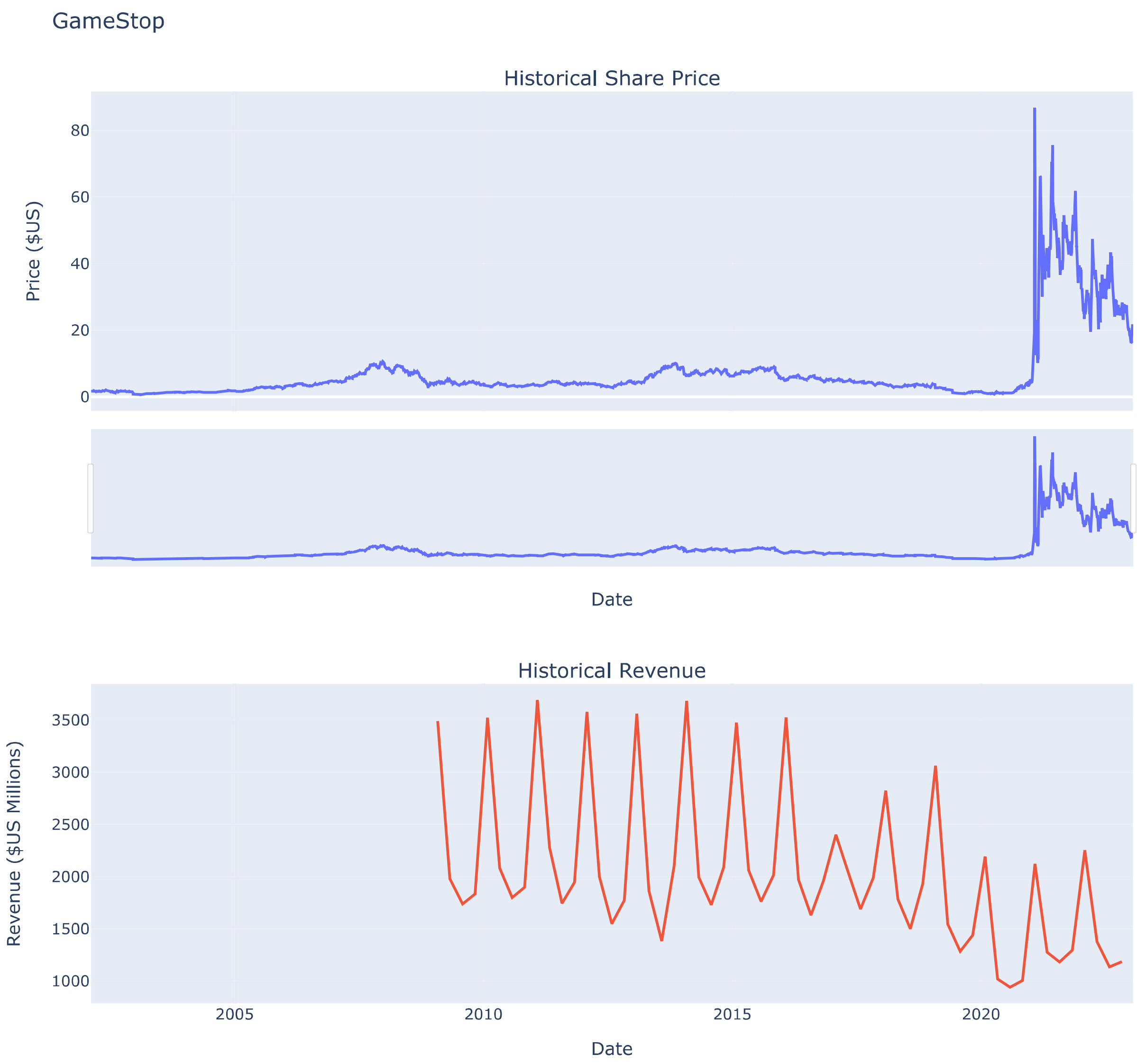
Out[9]:

	Date	Revenue
51	2010-01-31	3524
52	2009-10-31	1835
53	2009-07-31	1739
54	2009-04-30	1981
55	2009-01-31	3492

```
In [10]: make_graph(tesla_data[['Date','Close']], tesla_revenue, 'Tesla')
```



```
In [11]: make_graph(gme_data[['Date','Close']], gme_revenue, 'GameStop')
```



```
In [ ]:
```