Software Engineer

# Description

You’ll be working with a software engineering team to deliver business value. To demonstrate excellence in modern development tools and frameworks, we ask that you complete the following challenge. Please use this test to show off your skill set and what you can bring to the team. You will be critiqued on your quality, completeness, creativity, and technologies. If we proceed forward in the interviewing process, you will be asked to walk through your code. Unless otherwise stated in the challenge, choose modern technologies that exercise the breadth of approach and ones that you’re comfortable developing with.

When you have completed the following challenge, place your code in a code repository, ex. github, bitbucket, dropbox, etc.

# Mission/Challenge

Write a script using NodeJS that will calculate the current value of a stock market portfolio if a person were to buy any number of shares of three separate stocks on 1/1/2019 when the market opened.  Use any three stocks and quantities of your choosing, which can be statically defined in the script.  Output as a CSV file.  For each stock include the ticker, quantity bought, real-time price, highest price and lowest price between 1/1/2019 and now, and the calculated current value of that holding.  The last row is a Total which only includes the current total value of the portfolio.  Write Unit Tests for the script to appropriately test the code written (The Jest framework is popular).

 Use this API to retrieve stock prices:  
<https://financialmodelingprep.com/developer/docs/>

 Example Output:  
Ticker,Quantity,Current Price,High,Low,Current Value

AAPL,5,$315.11,$323.33,$142.00,"$1,575.53"

SPY,10,$326.61,$327.39,$242.60,"$3,266.10"

KMI,15,$21.49,$21.88,$15.10,$322.35

Total,,,,,"$5,163.98"