

**University of Nebraska at Omaha
Department of Mathematics**

Master of Science Project Proposal Form

This form should be completed prior to or shortly after first enrolling in the project course.

Student Name: Jordan Wheeler NUID Number: 24480166

Faculty Advisor: _____

External Advisor

Name: Jeff Anderson
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Position: Director of Business Solution Strategies
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Detailed Project Description (approx. 250 words):

Stock Market Forecasting Web Application (Price and Volume)

Create a web application to allow the user to choose various forecasting methods on daily stock market closing prices and volume. The user will also be able to choose 15 minutes and 60 minutes real-time intervals rather than daily.

The web application will also allow the user to compare the relationship between multiple stocks. The application will use multiple visualizations to allow the user to conduct exploratory data analysis. Also multiple forecasting methods will be offered to the user so that the user can see which method best fits.

The application will be built using R (RShiny) for the server and user-interface side, and a Yahoo API for streamlining stock data.

EXPECTED COMPLETION DATE: April 2019

Signatures

Student: _____ Date: _____

Faculty Advisor: _____ Date: _____

External Advisor: _____ Date: _____

Completed form must be submitted to Mathematics Graduate Program Chair