

Ryan Dundun

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www.RyanDundun.com

Education

University of Wisconsin-Madison

Double Major: B.S in **Statistics & Economics**

- Minor: **Computer Science**

Madison, WI

Graduated: May 2019

Skills & Awards

- AWS Solution Architect Associate (C02) Certified May-2020. Validation ID: VM2H0NMCEN441FCP
- Experienced in: Python, R, AWS, Machine Learning, SQL, Java
- Python Libraries: Scikit-learn (Machine Learning) Pandas (Data Analysis), Selenium (Automation), BS4 (Web-scraping)
- Spanish - Full working speaking & writing proficiency (Attended Milwaukee Spanish Immersion School)
- Powers-Knapp Scholar, University of Wisconsin-Madison (Private academic Scholarship)
- Division 1 Track & Field Athlete, University of Wisconsin-Madison
 - *Academic All-Big Ten Honoree* || *National NCAA Qualifier (400m Hurdles)*
 - *First-Team D1 All-American* || *BIG Ten Champion (DMR)*

Experience

Capital One Financial Corporation

Chicago, IL

Data Engineer

August 2019-Present

- Full-Stack Web-Development for instant-issuance credit card software application
- Tracked user activity on website, saved data to Snowflake data warehouse, & performed analytics to give insights.
- Utilizing AWS Lambda & S3, automated website testing & web-scraping with chrome web-driver & selenium Python.

Quad Graphics

Sussex, WI

Data Analyst & Statistical Forecaster

May 2018-September 2018

- Predicted/forecasted trends of business operations using time series forecasting (Programming language R).
- Cleaned data with "Cooks Distance." Used statistical tests to ensure model assumptions were met. Parameters were chosen by minimizing AIC & BIC to find most accurate model. Macroeconomic data was web-scraped from FRED used as indicators. Entropy & statistical significance tests completed to find best indicators to further improve model accuracy.
- Forecasted manufacturing sales & other time series with 3-6% mean absolute percentage error (MAPE).

Biomedical Data Science Research, UW-Madison Department of Biostatistics

Madison, WI

Software Engineer and Data Analyst

May 2017-September 2017

- Created an interactive web application enabling the user to interact with the data for better understanding
 - Interact with it now at: <https://dundun.shinyapps.io/shinyswallow/>
- Organized & cleaned patient data to prepare for statistical analysis
- Wrote server & user interface program in R to run a "Shiny" Application

Personal Projects (Live & Online)

Stock Predictor (Machine Learning): www.FourKube.com (Python/AWS/Machine Learning)

- Utilizing AWS Lambda, Comprehend, and S3, we web-scrape the internet for data. Then our Random Forest machine learning algorithm will predict whether or not to buy the stock. Performance metrics used include test-set accuracy, Confusion Matrix, back-testing. Gini Importance was used to find most important features to include in our algorithm.

Stock Visualizer & Forecaster: <https://dundun.shinyapps.io/stockForecast/> (R/Shiny)

- Web-scrapes stock data. Decomposes stock time series into 'seasonal', 'trend', & 'random' components
- Uses those components as building blocks to forecast future prices using ARIMA time series forecasting

Complex Instagram & Twitter Bots (Python/AWS)

- Python Bots that automatically log user in & mass like, follow, & unfollow a chosen niche of users on Instagram & Twitter. Python packages used include: BeautifulSoup, Selenium Web Driver, Pyautogui, Requests, & more.

Biomedical Data interactive web app from 2017 research Internship above: <https://dundun.shinyapps.io/shinyswallow/> (R)

- Allows user to more easily understand & express complex data by choosing various variables in app

Leadership Experience

Chess Club UW

Founder/President

2015-2019

- Recruited 100+ active members since establishment in 2015. Solicit meetings & tournaments for membership

Powers-Knapp Scholar, University of Wisconsin-Madison

Private Academic Scholarship

2015-2019

For links to all the live online projects, or to learn more visit www.ryandundun.com