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# LUCAS JENNINGS

DATA SCIENTIST

## Education

Springboard  
Data Science 2018

University of  
Arkansas  
M.S. Mathematics  
2011

Emphasis on Topology,  
Graph Theory, and  
Networks

Arkansas State  
University  
B.S. Mathematics  
2005

## Skills

Data Science  
Machine Learning  
Supervised Learning  
Unsupervised Learning  
Predictive Algorithms  
Data Analysis  
Financial Analysis  
Statistical Analysis  
Clustering  
Natural Language  
Processing  
Network Analysis  
Web Scraping  
Data Cleaning  
Data Wrangling  
Data Visualization  
Support Vector Machines  
Random Forests  
Principle Component  
Analysis  
GitHub @lbjennings  
Docker  
Jupyter Notebooks  
Bokeh  
Matplotlib

## Awards

Bronze Star Medal

## Summary

I've used a data centered approach to turn around a business territory, impact a battlefield campaign, and manage financial portfolios. I've implemented and presented data projects to clients, and senior stake holders. I enjoy programming and diving deep into the story that data tells using machine learning, predictive algorithms, and data visualizations to uncover and communicate insightful and beneficial opportunities.

## Employment

### United States Army

Chief Intelligence Officer

2016 to Current

Chief officer responsible for collecting, analyzing and distributing intelligence reports.

Established cross-functional teams to build data centric projects.

### Union Pacific Railroad

Manager of Operations

2013 to 2016

Successfully turned the business operations around leading the region from the last to the top performing region by utilizing data driven analysis to target business improvements.

### Morgan Stanley

Financial Advisor

2005 to 2008

Built robust portfolio investment strategies and financial reports for individual clients.

Routinely conducted statistical analysis and predictive algorithms on financial portfolios and markets.

## Projects

### Grocery Shopping Habit Analysis

2018

[https://github.com/lbjennings/Springboard/Capstone\\_Project\\_1](https://github.com/lbjennings/Springboard/Capstone_Project_1)

A project to understand and predict customer purchasing habits using machine learning.

Algorithms include Support Vector Machine, Random Forest, and Single Vector Decomposition.

### Improving the Canadian Interchange System

2016

Project Manager for a Union Pacific project to improve the interchange process between Canada and the United States. Project included time series analysis, network effects, capacity optimization, and statistical analysis.

### Train Velocity

2015

Project Manager for a Union Pacific project to improve train velocity over the Wisconsin territory. Project included data collection improvement, time series analysis, and critical path analysis.

### Counter IED Initiative

A data driven project to reduce the IED (improvised explosive device) threat in combat zones. Project utilizes machine learning, network analysis, graph theory, and predictive algorithms.

### Mini Projects

2018

<https://github.com/lbjennings/Springboard/Mini-Projects>

Projects include SQL, Clustering, Network Analysis, Linear and Logistic Regression, Naive Bayes and Statistically Analysis.