

# BRANDON I. KING

Ph.D. Student at North Carolina State University | Data Science & Textiles

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## DATA SCIENCE EXPERIENCE

### Data Scientist Intern | Naval Information Warfare Center (NIWC)

📅 May 2019 — August 2019    📍 Charleston, SC

- Performed collaborative research and executed analytical techniques within the Business Enterprise and Data Analytics department at NIWC to improve the performance of the workforce
- Contributed to active team research projects: extracted and analyzed metadata from text files to determine relations between documents
- Optimized complex backend methods to perform 99% faster using machine learning techniques and algorithms, such as Term Frequency-Inverse Document Frequency and K-Means Clustering using data science toolkits (Java, Clojure) to provide actionable insights for executives

### Graduate Research Assistant | North Carolina State University

📅 August 2016 — Present    📍 Raleigh, NC

- Design simulation models using SIMIO to compare four different hospitals monitoring systems for an optimization research study under the National Institute of Health (NIH) Grant
- Identify and implement the optimal structure monitoring method that will reduce response times to cardio-respiratory monitoring for patients who are at-risk
- Analyze Big Data on cardio-respiratory monitoring systems (using JMP Pro, Microsoft Excel, VBA, and EasyFit) provided by Medical teams recognize and test factors of effective cardiac monitoring

## ENTREPRENEURIAL & INDUSTRY EXPERIENCE

### Owner & Lead Tutor | Beacon of Light Tutoring

📅 August 2015 — Present    📍 Triangle Area, NC

- Serve as a mentor, tutor, and advisor for local middle school and high school students passionate about excelling in Mathematics
- Provide one-on-one assistance for students across all grade levels with their mathematics assignments
- Receive 100% positive feedback from tutees and currently have a 100% success and graduation rate

## TECHNICAL PROJECTS

### Predicting Sales

- Forecasted the monthly sales with Long Short-term Memory (LSTM) method in Python

### Chat Bot

- Used deep learning techniques to interact with customers via "chat" graphical user interface, similar to Fandango

### Beat the Bookie

- Applied data mining algorithms (Decision tree) in R to improve the odds to make a profit on small bet lines

### Database Management Systems Project

- Created a robust database system using SQL within Java to provide an command line user interface for information storage and retrieval allow the staff to perform these tasks and operations more efficiently

## EDUCATION

### NORTH CAROLINA STATE UNIVERSITY

📍 Raleigh, NC

Ph.D. in Textile Technology Management

📅 Expected: December 2020

Masters in Operations Research

📅 Graduation Date: December 2017

- **Affiliations:** Black Graduate Student Association - Finance Committee Chair (2018) | Minority Engineering Graduate Student Association

### CLAFIN UNIVERSITY

📍 Orangeburg, SC

B.S. in Applied Mathematics

📅 Graduation Date: May 2015

- Alice Carson Tisdale Honors College Scholar
- **Honors:** Cum Laude | 100 Black Men Scholar
- **Affiliations:** National Society of Black Engineers - Academic Excellence Chair (2015) | Kappa Alpha Psi Fraternity, Inc. - Vice President (2014)

## CERTIFICATIONS

Data Science Foundations GradCert  
by NC State University

## PROGRAMMING LANGUAGES

Python    ●●●●●●  
Java    ●●●●●●  
C    ●●●●●●

## STATISTICAL ANALYSIS TOOLS

R    ●●●●●●  
VBA    ●●●●●●  
JMP    ●●●●●●  
MATLAB    ●●●●●●  
SAS    ●●●●●●

## DATABASE TOOLS

SQL    ●●●●●●

## DATA VISUALIZATION TOOLS

Tableau    ●●●●●●

## SOFT SKILLS

Team Oriented    Visionary Thinker  
Dependable    Organizer    Flexible

## REFERENCES

Available upon request.