

# BRANDON I. KING

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

@ bking2415@gmail.com    📍 Raleigh-Durham, NC    in linkedin.com/in/brandoniking  
🔗 github.com/bking2415    🌐 bking2415.github.io/brandoniking.github.io



## 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 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** | Github

- Built Python module to forecast monthly sales of a data set
- Implemented Long Short-term Memory (LSTM) method

**Chat Bot** | Github

- Built graphical user interface, similar to Fandango, using pygame and tkinter packages
- Applied deep learning techniques within GUI to interact with users

**Beat the Bookie** | Github, GradCert Presentation

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

**Database Management Systems Project** | Github, GradCert 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.