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.com/bking2415/Forecasting*
- Built *Python* module to forecast monthly sales of a big data set
- Implemented *Long Short-term Memory (LSTM)* method using *Python* libraries *(keras and scikit-learn)*

Chat Bot | *github.com/bking2415/Chatbot*
- Built graphical user interface, similar to Fandango, using *pygame* and *tkinter* packages
- Applied *deep learning techniques (Natural Language Processing)* within GUI to interact with users using *Python* libraries *(keras, numpy, nltk, and tkinter)*

Beat the Bookie | *github.com/bking2415/Decision-Tree* | 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.com/bking2415/WolfHospital* | 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 | Clojure

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.