

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 big data set
- Implemented Long Short-term Memory (LSTM) method using Python libraries (keras and scikit-learn)

Chat Bot | Github

- 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, 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 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.