

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

Student Engineer Consultant | **Industry Expansion Solution**

September 2017 – January 2018 Raleigh, NC

- Presented to the Vice President and General Manager actionable insights/strategic recommendations to increase productivity in the work environment
- Advised organizations/companies to improve processes by implementing LEAN tools
- Analyzed and executed LEAN manufacturing tools to develop a collaborative work-space for the Engineering and Sales team to maximize communication opportunities and decreased non-value-added time by 80%

Logistics Intern | **Walmart Distribution Center #6027**

June 2014 – August 2014 Woodland, PA

- Led a project to identify, analyze and recommend process improvement methods for Walmart to optimize pallet size capacity for low volume items to enhance backroom efficiency
- Established and monitored specific supply chain-based performance measurement systems to improve logistics policies and procedures
- Aided continuous improvement through the development of supply-chain analytics to reduce waste in the warehouse

STRENGTHS

Team Oriented Problem Solver Dependable Organizer Flexible

EDUCATION

NORTH CAROLINA STATE UNIVERSITY

Raleigh, NC

Ph.D. in Textile Technology Management

Expected: December 2020

GradCert in Data Science Foundations

Expected: May 2019

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)

TECHNICAL PROJECTS

Automated Learning and Data Analysis

Beat the Bookie

Fall 2019

- Applied data mining algorithms (k-Nearest Neighbors, Decision tree, Support vector machine, and Artificial neural network) in R and Python to improve the odds to make a profit on small bet lines

Database Management Concepts and Systems

Wolf Hospital Management Database System

Spring 2019

- Collaborated with a team to create a database system (Java, JDBC, SQL) to provide an interface for information storage and retrieval to allow the staff to perform these tasks and operations more efficiently

Lean Six Sigma

Rollease Warehouse Operations Continuous Improvements

Spring 2017

- Increased productivity in warehouse operations by 15% using DMAIC Process

PROGRAMMING SKILLS

VBA | SIMIO
Python | R | SQL | Tableau
C | Java | MATLAB | SAS | Clojure



REFERENCES

Available upon request.