# Alfred Prah

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## EDUCATION

**Master of Science in Data Science, 2021**  **Vanderbilt University, Nashville, TN**
GPA: 3.60/4.00

Bachelor of Arts in Communication of Science and Technology, 2019  Vanderbilt University, Nashville, TN
Minor: Corporate Strategy

## EXPERIENCE

**Data Science Intern, GEODIS**  January 2021 – May 2021
• Used historical data and external factors to implement, optimize and deploy 200+ Time Series models to forecast volume and labor demands in the warehouses of 37 different clients/accounts.
• Created diagnosis reports for 11 faulty models in production and provided actionable next steps to prevent the reoccurrence of poor forecasts.
• Developed the Python style guide adopted internally within the Data Science team of experienced hires.

**Teaching Assistant - Modalities of Textual Analysis (AWS, Databricks, Apache Spark)**  September 2020 – April 2021
• Collaborate with lead teachers to recognize academic Data Science and Machine Learning issues students are facing and recommend solutions.

**Data Science Research Asst., Vanderbilt Research on Conflict and Collective Action (ROCCA) Lab**  May 2020 – May 2021
• Created informative visualizations and user-friendly dashboards to explore the link between civilian-led collective action and conflict trajectories within the United States of America.
• Used text data to build descriptive social networks that highlight hundreds of key conflict actors, their respective affiliations, and how their activities have changed over time.
• Designed and built a deep learning classifier that predicts civilian sentiments with an 81% accuracy.

**Data Science Intern, OhanaHealth**  May 2020 – August 2020
• Created user profiles and segments to enhance marketing efforts for hundreds of recruiters and thousands of job applicants.
• Designed, implemented and deployed a hybrid, deep-learning, recommendation engine to surface personalized information to thousands of users and encourage paid subscriptions.
• Performed A/B testing to determine how different users interact with different recommender systems.
• Validated incoming data to check information accuracy and integrity while independently locating and correcting concerns.

**Data Science Research Asst., Vanderbilt Data Science Institute**  February 2020 – May 2020
(Deep Learning in Natural Language Processing)
• Used Deep Learning and cutting-edge Natural Language Processing techniques and frameworks (RoBERTa and Fast.ai) to build a hybrid model that can predict settlement and 54 other outcomes of class-action lawsuits.
• Data: ~3,000 legal cases with 18,000 PDFs overall, some of which were not text readable.

**Machine Learning Buchanan Fellow, Jean and Alexander Heard Library**  January 2020 – May 2020
(Optical Character Recognition and Speech Synthesis)
• Used Machine Learning tools and techniques to transcribe 100s of archival documents by teaching a computer to recognize handwriting.

**Consumer Behavior Researcher, Vanderbilt Owen School of Management**  May 2018 - December 2018
(Psychographics and Emotional Motivators)
• Embarked on a full-swing, independent, marketing research campaign to unravel the complex nature of psychographics & emotional motivators, in relation to consumer behavior.
• Synthesized and analyzed consumer demographics, preferences, and buying habits, to aid in the development of marketing campaigns and research materials and provide recommendations on maximizing opportunities and investments.

**Founder & CEO, [Dono Clothing](#)**  June 2014 - December 2018
• Established a contemporary clothing store to inspire a revolution of cultural appreciation.
• Supervised a team of 5 employees and approved all fittings, samples and garments before production.
• Managed and analyzed Customer Databases to constantly inform and enhance Consumer Promotion efforts.
• Designed and published targeted ads to increase website traffic and enhance brand recognition.

## CAPSTONE/PERSONAL PROJECT (VANDERBILT DATA SCIENCE MASTER'S DEGREE REQUIREMENT)

• [Hit-or-not](#): a client-facing platform that allows up and coming musicians to upload audio files and receive feedback on how their songs compare to songs that have historically charted on The Billboard Hot 100. Final Grade: A

## SKILLS

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| Network Analysis | A/B Testing | Topic Modeling | Natural Language Processing |
| Experimental Design | Optimization | Bayesian Statistics | Sequences, Time Series & Prediction |