William Braga

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EDUCATION

Georgia Tech **December, 2021**
MS - Computer Science Atlanta, GA
- TA for Natural Language Processing

Georgia Tech **December, 2020**
BS - Computer Science Atlanta, GA
- Concentration in Information Systems and AI
- Highest Honors

WORK EXPERIENCE

National Data Buoy Center - NOAA **November 2022 – Present**
Application Programmer Remote (Stennis Space Center, MS)
- Contracted by the NDBC, an agency of the National Weather Service, to process data from ocean buoys
- Peer reviewed their upcoming web redesign sites, fixing dozens of PHP, JS (ArcGIS), and HTML bugs
- Pulled JSON data from partner organization's API and transformed to BUFR file output with ecCodes
- Updated their legacy realtime software in C to handle nine new buoy measurements

College of Computing - Georgia Tech **May 2022 - August 2022**
Study Abroad Program and Teaching Assistant Barcelona, Spain
- Graded exams and tutored students as an experienced TA of the Discrete Mathematics course
- Designed the Intro Database final project from a personal design of a virtual recipe book/grocery list

CHAI Lab - Georgia Tech Research Institute **August 2021 - December 2021**
Graduate Research Assistant Remote (Atlanta, GA)
- Contracted by the CDC to aid the Covid-19 response through NLP research on healthcare data
- Webscraped and parsed news articles with spaCy to find hundreds of companies' return-to-work policies
    - Used part-of-speech tagging and entity recognition to identify the companies named in the articles
- Processed thousands of doctors' notes in Python using Regex to identify possible Covid symptoms

Assurant **May 2021 - August 2021**
Data Science Intern Remote (Marietta, GA)
- Queued distributed data with SQL from hundreds of thousands of insurance claims through PySpark
- Researched ways to reduce their SLA claim decision time by comparing different ML techniques
    - Preprocessed data in Databricks with word embeddings and PCA to reduce dimensionality
    - Cached model results based on feature importance found using decision trees

PROJECTS

- Clustered artwork from the Cleveland Museum of Art using Pandas and SkLearn's PCA and K-Means
- Generated and compared culinary recipes made with GPT-2 and Tensorflow Char and Word-RNNs
- Created a video stabilizer using OpenCV to find homography transformations and cvxpy to solve an LP

SKILLS

Programming: Python (Flask, Pandas, PyTorch, PySpark, SkLearn, OpenCV), Java, SQL, C, Javascript (Node), PHP
Technical: NLP, CV, Linux, Git, Docker, Data Science, Data Mining, Deep Learning, Databricks, MySQL, MongoDB, REST
World Languages: English (Native), Portuguese (Native, spoken only), Spanish (Fluent)
Licenses/Clearances: Active FL Real Estate Sales Associate, Active Public Trust Clearance
Hobbies: Cooking, Brewing, Reading (Sci-Fi, Classics), Gardening, Photography