

# William Braga

wmbraga7@gmail.com • (229) 712-1599 • www.wilabraga.com • <https://github.com/bragalotwill>

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## EDUCATION

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### Georgia Tech

MS - Computer Science

- TA for Natural Language Processing

**December, 2021**

Atlanta, GA

### Georgia Tech

BS - Computer Science

- Concentration in Information Systems and AI
- Highest Honors

**December, 2020**

Atlanta, GA

## WORK EXPERIENCE

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### National Data Buoy Center - NOAA

Application Programmer

**November 2022 – Present**

Remote (Stennis Space Center, MS)

- Contracted by the NDBC, an agency of the National Weather Service, to process data from ocean buoys
- Lead the website redesign review, fixing dozens of PHP, JS (ArcGIS), and HTML bugs
- Pioneered a new project to convert JSON data from a partner organization's API into a BUFR format
- Revamped their legacy realtime software in C to handle nine new buoy measurements

### College of Computing - Georgia Tech

Study Abroad Program and Teaching Assistant

**May 2022 - August 2022**

Barcelona, Spain

- Headed the TA effort for the Discrete Mathematics and Introduction to Database classes
- Designed a course-long MySQL project for the Database class

### CHAI Lab - Georgia Tech Research Institute

Graduate Research Assistant

**August 2021 - December 2021**

Remote (Atlanta, GA)

- Contracted by the CDC to aid the Covid-19 response through NLP research on healthcare data
- Mined online articles to compile a list of US companies' return-to-work policies using SpaCy
  - Identified key information using entity recognition and part-of-speech tagging
- Evaluated thousands of doctors' notes to track evidence of Covid symptoms using Regex

### Assurant

Data Science Intern

**May 2021 - August 2021**

Remote (Marietta, GA)

- Coordinated a new ML research project to reduce SLA time on making insurance claim decisions
  - Queued distributed data from hundreds of thousands of claims through PySpark on Databricks
  - Expedited decisions by caching model results and reducing feature dimensionality with PCA

## PROJECTS

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- Culinary Recipe Generation: Evaluated recipes made with GPT-2 and custom Keras Char/Word-RNNs
- Video Stabilizer: Implemented a Linear Program algorithm from a research paper to smooth video motion
- Artwork Cluster Visualization: K-Means clustered data from Cleveland Museum of Art's API

## SKILLS

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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, Chess