

# William Braga

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## EDUCATION

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### Georgia Tech | College of Computing

*Master of Science in Computer Science*

- TA for Natural Language Processing

**December, 2021**

Atlanta, GA

### Georgia Tech | College of Computing

*Bachelor of Science in Computer Science*

- Concentration in Information Systems and AI
- Highest Honors

**December, 2020**

Atlanta, GA

## WORK EXPERIENCE

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### Centuria, Inc. - National Data Buoy Center

*Application Programmer*

**November 2022 – Present**

Remote (Stennis Space Center, MS)

- Pioneered a new project to ingest hundreds of drifting buoys' realtime JSON data from a partner organization's API and transform it into BUFR files with ecCodes' Python library
- Lead the code review for their major website redesign, finding and correcting dozens of PHP, JS (ArcGIS), and HTML/CSS bugs
- Revamped their legacy realtime software in C to calculate nine new types of buoy weather measurements

### College of Computing - Georgia Tech

*Study Abroad Program and Teaching Assistant*

**May 2022 - August 2022**

Barcelona, Spain

- TA'd the Intro to Databases and Discrete Math courses, designing the course project for Databases

### CHAI Lab - Georgia Tech Research Institute

*Graduate Research Assistant (NLP)*

**August 2021 - December 2021**

Remote (Atlanta, GA)

- Datamined hundreds of online articles to compile an Excel sheet of US companies' Covid return-to-work policies, identifying key information using entity recognition and part-of-speech tagging with SpaCy
- Tracked the spread of Covid-19 by identifying potential Covid symptoms with advanced Regex matching across thousands of doctors' notes provided by the CDC

### Assurant, Inc

*Data Science Intern*

**May 2021 - August 2021**

Remote (Marietta, GA)

- Lead the research initiative to find cutting-edge ML optimizations to speed up their claim decision times
- Tested caching techniques on hundreds of thousands of insurance claims data, containing natural language comments from the user and Assurant's metadata, with PySpark on Databricks
- Achieved subsecond SLA time on cached claim decisions, a speed optimization of over 50%
- Presented methodology and accuracy/time results to multiple departments and VPs

## PROJECTS

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- Culinary Recipe Generation: Compared 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 (matplotlib, pandas, PyTorch, PySpark, SciKit, TensorFlow, OpenCV), Java, SQL, C, Javascript

Technical: Machine Learning, NLP, Distributed Systems, Databricks, Git, Docker, Spark, Jupyter, Data Analysis, CV

World Languages: English (Native), Portuguese (Native, spoken only), Spanish (Advanced)

Licenses/Clearances: Active FL Real Estate Sales Associate, Active Public Trust Clearance

Hobbies: Cooking, Homebrewing, Reading (Sci-Fi, Classics), Gardening, Photography, DIY, Watch Repair