MADELINE FAYE HOLT

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EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY, *Honors Program*   Atlanta, Ga
Bachelor of Science, Major in Computer Science, Minor in Linguistics   Expected Graduation, *May 2023*
GPA: 3.91/4.0 (Faculty Honors, Dean's List)
Threads/Concentrations: Intelligence, Theory

SKILLS

Technical Concepts: Data structures, Algorithms, Object Oriented Programming, Information Visualization, Machine Learning, Natural Language Processing, Discrete Mathematics, Applied Combinatorics, Linear Algebra
Programming Languages: Java, Python, SQL, JavaScript, HTML, CSS, C#, Git
Frameworks: PyTorch, NLTK, TensorFlow, NumPy, spaCy, Pandas, scikit-learn**, D3**
Operating Systems: Unix, Linux

EXPERIENCE

Georgia Institute of Technology SALT Lab, Atlanta, Ga   *October 2020 - Present*
Research Assistant in Dr. Diyi Yang's Social and Language Technologies (SALT) Lab
- Conducting NLP research to explore counselor success for an online therapy platform.
- Created an annotated corpus of Motivational Interviewing utterances using semi-supervised labelling and data augmentation. Used this corpus to build 17 binary classifiers using PyTorch and BERT.
- Utilizing the constructed classifiers to conduct research analysis on therapeutic strategies with the aim of submitting a paper to CSCW 2022.

Carrier Global, Atlanta, Ga   *June 2021 – August 2021*
Software Engineer Intern for the Analytics and Automation Department
- Built a paraphrasing model using GoogleAI's T5 Transformer to automate creating utterances for internal and external chat-bots.
- Collaborated with Carrier's Cyber Department to create a chatbot using Microsoft Azure, C#.NET, and JavaScript.
- Worked with Carrier's Legal Department to automate their denied party screening service through AgilePoint Workflow and the MKDenial API. The automation saved Carrier 19,200 hours per year.
- Gained experience in all project phases by following Waterfall and Agile Methodologies.

Georgia Institute of Technology DILAC, Atlanta, Ga   *February 2021 – August 2021*
Research assistant for Dr. Brad Rittenhouse in the Digital Integrative Liberal Arts Center
- Built a Python framework to extract data from the works of Ralph Waldo Emerson using Named Entity Recognition, spaCy, and PyTorch for a project under contract with the Oxford University Press.
- Used supervised machine learning to extract correct Wikidata entities.
- Developed an interactive, dynamic Knowledge Graph of Entities in D3 to analyze the relevant works.

Google Computer Science Research Mentorship Program   *January 2021 – April 2021*
Google Research Mentee
- Held weekly meetings with a Google mentor to learn more about the CS research space and developed connections with researchers and fellow mentees.

PROJECTS

A Study in Hate, Atlanta, Ga   *September 2021 – December 2021*
Semester Project focused on the explainability of transformer-based models and implicit hate classification
- Trained four transformer-based models and conducted feature manipulation and attention modelling.

Got Bias?, Atlanta, Ga   *October 2020*
Project for HackGT 2020 to create an algorithm to filter news based on bias. Sponsored by NewsQ
- Developed a sentiment analysis model using supervised machine learning and the NLTK to detect bias in articles. The developed algorithm won 3rd place in for Georgia Tech's annual hackathon.