

## EDUCATION

**Georgia Institute of Technology** Aug. 2020 to Current  
**MS Computer Science 2022**  
Beginning taking courses as part of the BS/MS Program in Fall 2020 and will move directly in Masters in Spring 2021

**Georgia Institute of Technology** Aug. 2018 to Current  
**B.S. Computer Science 2020**  
**Linguistics Minor**  
Relevant Coursework: Machine Learning, Artificial Intelligence, Computational Linguistics, Probability & Statistics, Data Structures & Algorithms, Object Oriented Programming  
GPA (Weighted) — 3.85/4.0  
Member of Honors Program, The Agency

**TJHSST** Aug. 2014 to June 2018  
**High School Diploma**  
GPA (Weighted) — 4.395/4.0  
President of Development Club & Linguistics Club  
Relevant Coursework: Artificial Intelligence, Mobile & Web App Development

## EMPLOYMENT

**THE HOME DEPOT** Atlanta, GA  
**OrangeWorks - Software Engineer Intern** Feb. 2020 to May 2020

- I help build prototypes and proof-of-concepts for future products and systems
- Built out an NLP and Object Recognition-based recommender system
- Technologies used include Tensorflow, PyTorch, Keras, spaCy, gensim, Flask, and React

**MONOTTO** Atlanta, GA  
**Backend/Data Science Developer** June 2019 to Current

- Used NLP and Machine Learning techniques to analyse user transaction data
- Maintained/upgraded existing products and led development of a new project
- Backend development done with LoopBack, NodeJS, Flask, Atruego and PostgreSQL in Typescript, Python, and Go
- Data analysis done with Pandas, NLTK, Numpy and SciPy in Python

**COMPUTATIONAL SOCIAL SCIENCE LAB** Atlanta, GA  
**Undergraduate Researcher** Oct. 2019 to Current

- Investigating transportation-related complaints on social media
- Redesigned model architecture from previous work resulting in 7% accuracy increase
- Used BERT, LDA and other ML systems to classify and parse dataset

**AUTOMATED ALGORITHM DESIGN LAB** Atlanta, GA  
**Undergraduate Researcher** Jan. 2019 to Current

- Received training in Genetic Algorithms, Machine Learning theory, and team-specific frameworks using Python and MySQL
- Previously was part of the caching sub-team and optimized cache invalidation using dynamic programming
- Currently focusing on NLP applications of the framework (e.g. automated document summarization)

## PROJECTS

**MAKE A FACE – DEEP LEARNING HACKATHON 2018 (1ST PLACE)** Sept. 2018

- Made a web app with 2 other teammates where the goal is for the user to match the given image's facial expression
- Used Convolutional Neural Networks and Haar Cascades to detect faces, emotion, and key facial reference points
- Personally trained the CNN to detect facial reference points using Keras
- Designed an algorithm to determine facial similarity based on reference points

**LOCAL NEURAL STYLE TRANSFER – APPLICATION RESEARCH LAB** Sept. 2017 to Apr. 2018

- Created an Android App to transfer image style and content
- Researched modern methods for performing neural style transfer
- Designed/trained my own models using Tensorflow and Python
- Wrote the application using Java and the accompanying Tensorflow libraries

**LIGHTHOUSE – HACKTJ 2017 (PALANTIR SOCIAL IMPACT AWARD)** Mar. 2017

- Created a cross-platform app to connect those in need of quick temporary housing in times of crisis with those willing to provide
- Led front-end development using React-Native and assisted back-end development using Flask and MongoDB

## SKILLS

**LANGUAGES:** Python, Java, HTML/CSS/JS, Typescript, Matlab, GoLang, C, Dart, R  
**FRONTEND FRAMEWORKS & TOOLS:** React, Android, React-Native, Flutter, AngularJS  
**BACKEND FRAMEWORKS & TOOLS:** NodeJS, Flask, LoopBack, SQL/PostgreSQL, GraphQL, Firebase, AWS, GCP  
**DATA SCIENCE/ML:** Numpy, Pandas, SciPy, NLTK, Tensorflow, Keras, PyTorch