

# Abhishek Mallemadugula

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## Summary

Computer Scientist with an interest in machine learning, finance, and software engineering. Seeking to use product development experience and strong problem-solving skills in an internship for Summer 2019.

## Education

### Georgia Institute of Technology

Aug 2017 - May 2020

*Pursuing a B.S. in Computer Science*

- Specializing in Intelligence and Modeling.

## Experience

### Georgia Tech Human Computer Interaction Lab

Jun 2018 - Aug 2018

*Technical Intern*

- Built a framework and appropriate documentation for network visualizations.
- Created a SQL database along with a Python API for ease of read/write access from various types of data files.
- Created a backend to process queries from the user using Python using the NetworkX package
- Built a web app using ReactJS and D3/Vis that communicates with the backend to deliver visualizations to the user.

## Projects

### Algorithmic Trading

Mar 2018 - Current

*Self Employed*

- I automate trading strategies on the Forex market.
- Use TradingView and Python through the Quantconnect platform to discern and backtest strategies.
- Use mathematical and financial packages including Ta-Lib, NumPy, Pandas, Matplotlib, etc.
- Use a REST-V20 API from Oanda and AWS Lambda to deploy the strategy.
- My finance background is primary derived from books and online courses.

### Face Check

Sep 2018

*HackGSU Project*

- Built a ready-to-deploy testing/attendance authentication system based on facial recognition for classrooms.
- The application was built in python using a package called face\_recognition.
- The model was trained on the Labeled Faces in the Wild dataset with an accuracy of 99.38%

### Project Nucleus

Feb 2018 - April 2018

*2018 Kaggle data science bowl*

- Attempted to outline nuclei over varied conditions including color, shape, and size.
- Used techniques of image augmentation because we had a small dataset to train on.
- Used techniques of various edge detection methods to identify which section contained the nucleus so we could outline it.

### Youtube Caption Analysis

Feb 2018

*HackIllinois project*

- Attempted to determine the complexity of a YouTube video's topic by analyzing the captions of the video.
- Completed the project using Python using natural language processing libraries such as TextBlob and NLTK.
- Turned the analysis into a web app using Flask.

## Skills/Interests

**Programming Languages:** Python, Java, C, Matlab, LC3 Assembly, SQL, with some experience in Javascript

**Web Technologies:** HTML5, CSS3, JS, React, Vis, D3, AWS Lambda/EC2

**Relevant Coursework:** Data Structures and Algorithms | Machine Learning | Intro to AI | Analysis of Algorithms | Computer Organization | Probability and Statistics | Objects and Design | Data Manipulation

**Organizations:** AI Club, Data Science Club, India Club, Racquetball