

# 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 2021.

## Education

### Georgia Institute of Technology

Aug 2017 - May 2022

Pursuing a B.S./M.S. combined program in Computer Science

- Specializing in Intelligence and Modeling.

## Experience

### IBM Extreme Blue

May 2020 - Aug 2020

Extreme Blue Software Engineering Intern

Austin, Texas

- Created a production level feature for managing root cause analysis documents in IBM's Cloud Event Management product.
- Primarily worked on the front end of the React application as well as managing the data state using Redux.
- Analyzed customer requirements and how to fluidly integrate into the current offering.
- Did weekly presentations that cumulated to presenting the work to IBM executives.

### IBM Aspera

Jun 2019 - Aug 2019

Backend Software Engineering Intern

Emeryville, California

- Created a Ruby on Rails application to expose a prometheus end point so the analytics team can effectively monitor the health of Spark queries.
- Designed and implemented a Cassandra data model for internal logging. Wrote Scala code to read and manipulate messages from Kafka topics to insert into the database.
- Explored containerization for and used Docker tools to deploy each of the above projects.

### Georgia Tech

Jun 2018 - Aug 2018

Technical Intern

Atlanta, Georgia

- 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

Jul 2019 - Oct 2019

Personal Project

- 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.

### Youtube Caption Analysis

Feb 2019

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.

### Dragon Jump

Dec 2019

Game

- A Game Boy Advanced game made in C
- Played on an GBA emulator.

## Skills/Interests

**Programming Languages:** Python, Java, JavaScript, C, Matlab, LC3 Assembly, some Ruby on Rails and Scala

**Technologies:** React, Docker, AWS Lambda/EC2, SQL, Cassandra

**Organizations:** AI Club, Big Data Club, Sailing, Racquetball, India Club