Abhishek **Mallemadugula**

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Summary

Looking for a summer internship opportunity in 2019. Avid participator in multiple hackathons. Passionate about data modeling and machine learning.

Education

Georgia Institute of Technology

Aug 2017 - May 2021

Pursuing a B.S. in Computer Science

- Specializing in Intelligence and Modeling.

Skills

Programming Languages: Python, Java, Matlab, with some experience in Javascript
Web Technologies: HTML5, CSS3, JS, React, Vis, D3, AWS Lambda/EC2

Relevant Coursework: Data Structures and Algorithms | Computer Organization | Data Manipulation | Object Oriented Programming | Objects and Design

Experience

Georgia Tech Human Computer Interaction Lab

Jun - Aug 2018

Technical Intern

- 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 NetworkX
- Built a web app using ReactJS and D3/Vis that communicates with the backend to deliver visualizations to the user.

Self Employed

Jan - Current

Algorithmic Trading

- Use TradingView and Python through the Quantconnect platform to discern and backtest strategies on the Forex market.
- Use a REST-V20 API from Oanda and AWS Lambda to deploy the strategy.

Projects

Beta Zero

Sep 2018 - Current

In conjunction with the Agency - a team at Georgia Tech that educates our community about intelligent computing.

- Currently working on a chess bot using self-play and general reinforcement. The goal is for the bot to beat us.
- Inspired by the research paper: Mastering Chess and Shogi

Project Nucleus

Feb - 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.

Take a look at github.com/abhishekmalle for more projects.