Abhishek Mallemadugula

678-702-6730 | abhishekmalle@gatech.edu | abhishekmalle.github.io | LinkedIn: abhishekmalle | Github: abhishekmalle

Objective

Computer scientist with an interest in machine learning, finance, and software engineering. Seeking to use product development experience and strong problem-solving skills for a fulltime role in Jan 2022.

Education

Georgia Institute of Technology | Atlanta, GA   *(In Progress) August 2020 – December 2021*
M.S. Computer Science, Machine Learning and Robotics

Georgia Institute of Technology | Atlanta, GA   *August 2017 – December 2020*
B.S. Computer Science, Machine Learning and Modeling

Experience

Salesforce | Austin Texas   *May 2021 – August 2021*
Software Engineering Intern
- Worked on debugger usability improvements in the Salesforce Flow Builder product that customers will see in the 234 release.
- Changed client-side references from API-names to user readable labels.
- This fundamental change had many effects throughout the product. Therefore, I updated over 300 hundred test failures and continuously communicated to other teams working on the product of the changes.
- Modified typescript frontend to reflect the new reference types along with several UI usability modifications.
- Collaborated with UI designers to approve UI modifications.

IBM | Austin Texas   *May 2020 – August 2020*
Extreme Blue Software Engineering Intern
- Responsible for developing and integrating a feature for automating root cause analysis documents in IBM's Cloud Event Management product.
- Automation saves 8-10 hours spent collecting data on each document. This results in saving over 100,000 man-hours annually at IBM alone.
- Developed the front end of the React application as well as the state container using Redux. Integrated IBM Watson to provide predictive action items.
- Presented weekly to IBM executives to justify the feature, adapt the feature into existing site reliability engineers' workflows, and pitch to other IBM teams if they can make use of our work.
- Set up sprint goals and led scrum meetings daily. Communicated with stakeholders and other teams to find opportunities to integrate our work into other IBM SaaS products.

IBM Aspera | Emeryville, California   *June 2019 – August 2019*
Backend Software Engineering Intern
- Created a Ruby on Rails application to expose a Prometheus end point so the analytics team can effectively monitor the health of Spark queries using Grafana.
- 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 and used Docker tools to deploy both projects.

Projects

Casual Conversation Bot   *May 2020*
- Built a pipeline that generates kind responses to inputs. Scrapped over half a million posts from reddit with respective comments.
- Fine-tuned GPT2 model for text generation. Used custom realism and relevance discriminators in the post processing pipeline to sort generated responses.

Haxball Imitation learning   *February 2020*
- Haxball is a 3v3 soccer game that requires teamwork. Games were scraped from tournaments.
- Explored differences between centralized and decentralized imitation learning methods.
- Used python and pytorch to build models that contested each other.

Algorithmic Trading   *July 2019 - October 2019*
- Automated trading strategies on the Forex market.
- Used TradingView and Python through the Quantconnect platform to discern and back test strategies.
- Used mathematical and financial packages including Ta-Lib, NumPy, Pandas, Matplotlib, etc.
- Used the Oanda API to communicate with the broker and AWS Lambda to deploy the strategy 24/7.

Skills/Interests

Programming Languages: Python, Java, JavaScript
Organizations: AI Club, Big Data Club, Sailing, Racquetball, India Club