Mahesh Natamai [Email](.) | [GitHub](.) | [LinkedIn](.)

EDUCATION

School Of Science And Engineering, Dallas, TX

2018 - 2022

PROJECTS *(Other projects listed on Github)*

LyricNet — *Machine Learning Web App*: [Website](.) | [GitHub](.) | Devpost

- Architected as a **web app to showcase use cases of machine learning in the music industry** for song lyrics generation (using **markov chain** and **LSTM**), song lyric autocompletion (using **markov chain** and **GRU**), and question answering (using **BERT**) for the def hacks **2020 hackathon**
- Built using **Flask** backend, **Tensorflow** for machine learning, **React** frontend, and **Google Cloud Platform** hosting

Triple Spades — *Web App* [GitHub](.)

- Developed as an **online card game web app** built with **Angular** frontend, **Flask** backend, **MongoDB** database, and **SocketIO** for real-time gameplay. **Authentication** done using **JWT** through a **REST API**
- Allows 5 users to play the card game of triple spades realtime, keep track of scores using a scoreboard, and register / login
- Project involved collaboration of many members at once, making use of **scrum methodology**, **agile development**, and **git** for version control. **Trained other members** in the project on Angular and Python for development.

Quick Maths — *Web App*: [Website](.) | [GitHub](.)

- Developed as an **education tool** built with **Angular** frontend and **Firebase** backend
- Allows UIL Number Sense teams to **practice tests and mental math skills online**, monitor progress through a **leaderboard**, and vary level of difficulty
- **Reduced paper waste** produced by test printing, and allowed for personalized learning from any location

Recipe Book - *Web App*: [Website](.) | [GitHub](.)

- Architected to keep **track of user submitted recipes**, including recipe titles, images, descriptions, and ingredients, as well as submit them to a **shopping list.**
- Authentication done using **JWT** provided by **Firebase**
- Developed with **Angular** frontend and **Firebase** backend

Game Bot - *Discord Bot*: [Invite Link](.) | [GitHub](.)

- Developed using NodeJS with the Discord.JS library to play various games including card games, tic-tac-toe, poker, and others

PROGRAMMING LANGUAGES

Java
Python
JavaScript
TypeScript
HTML/CSS

FRAMEWORKS/ LIBRARIES

React
Redux
Angular
Flask
MongoDB
Mongoose
NodeJS
Express.JS
Bootstrap

AWARDS

Second Place at UTD Fall High School Programming Contest

Qualified For World Championship FTC Robotics Tournament (Through Inspire And Connect Awards)

Silver Rank in USA Computing Olympiad

TOOLS

Git/GitHub
Bash
Jira (Agile / Scrum)